

FIG. 1 PRIOR ART

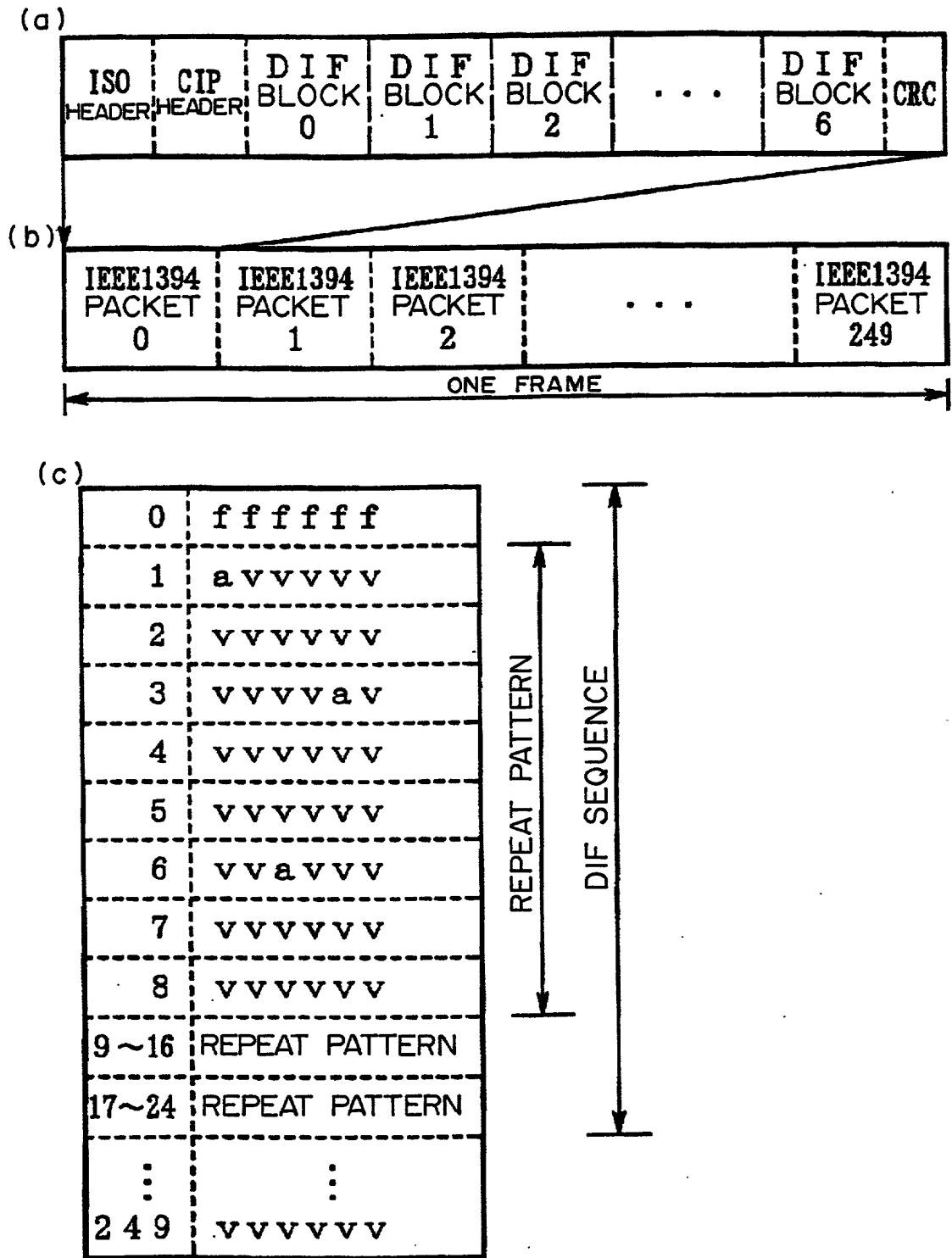


FIG. 2 PRIOR ART

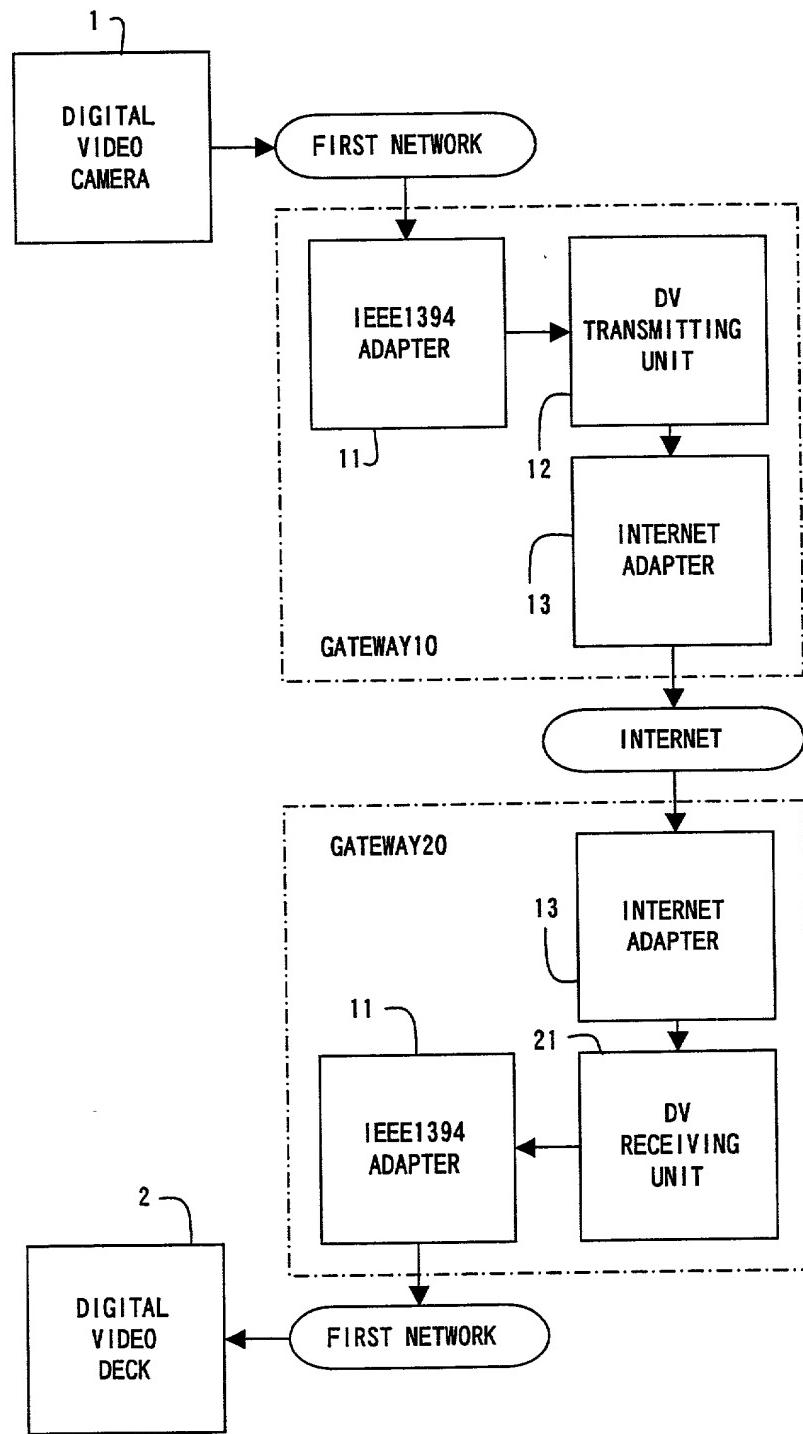


FIG. 3

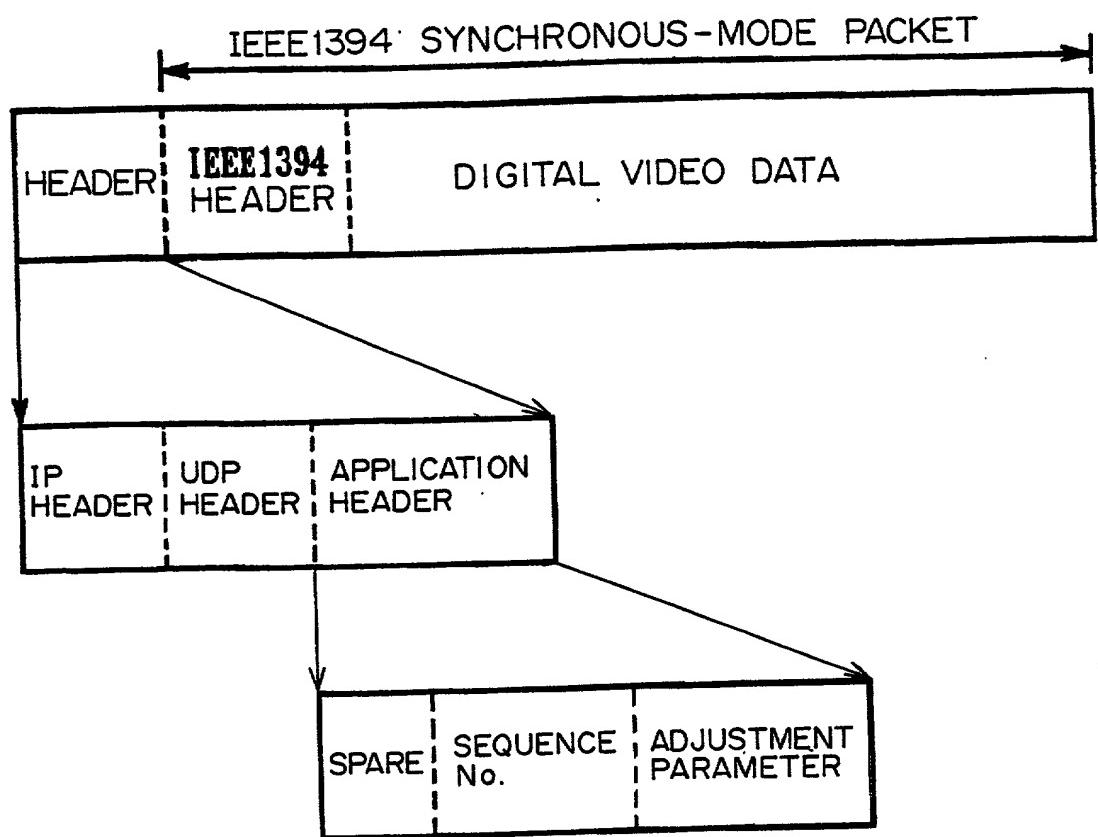


FIG. 4 PRIOR ART

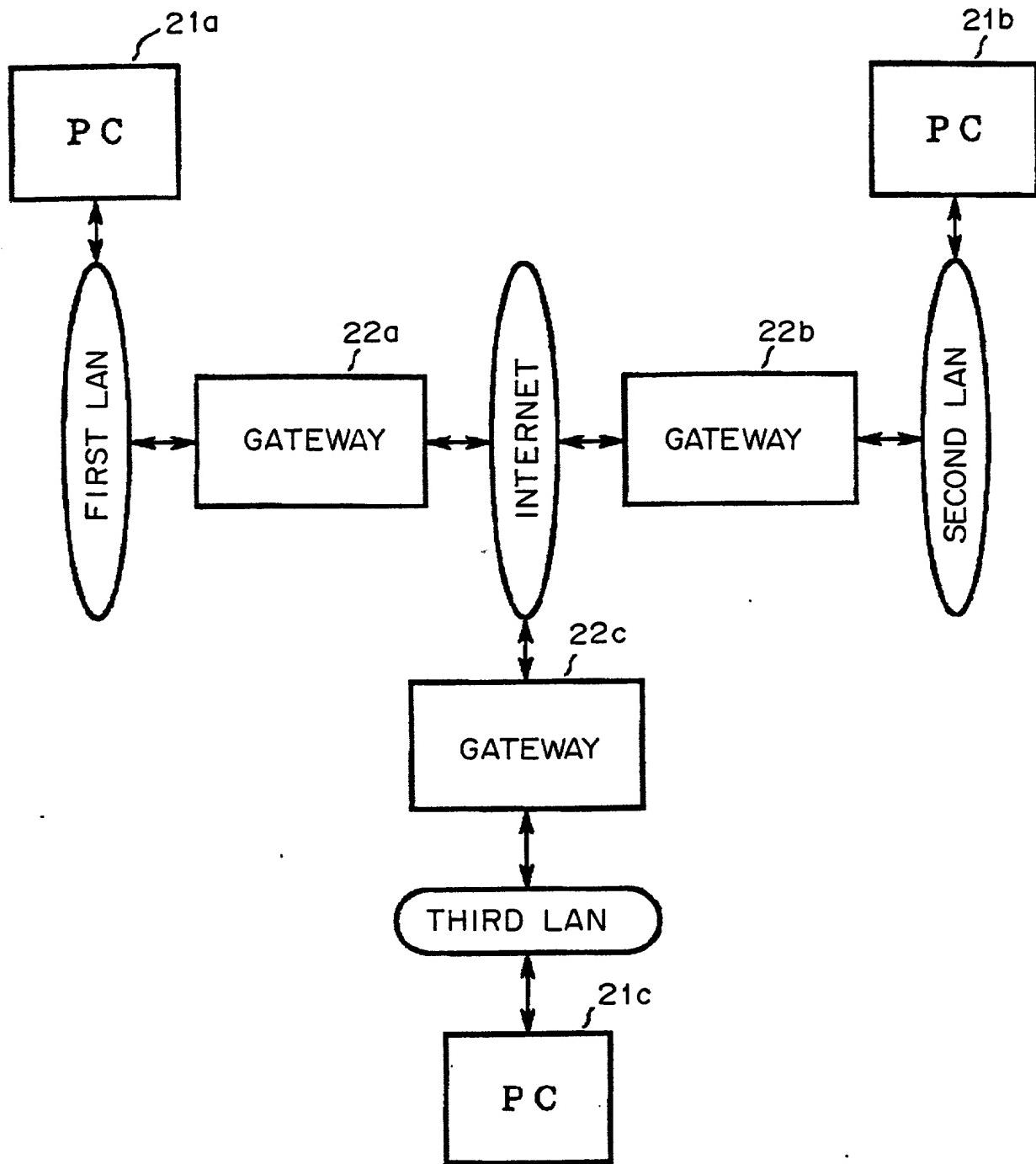


FIG. 5 PRIOR ART

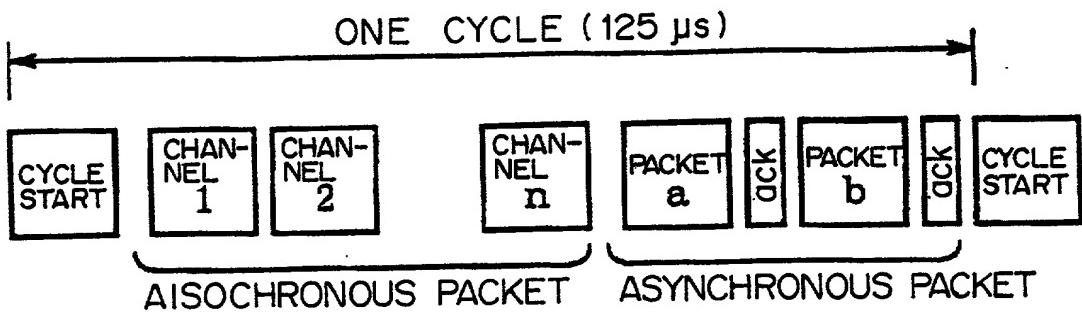


FIG. 6A PRIOR ART

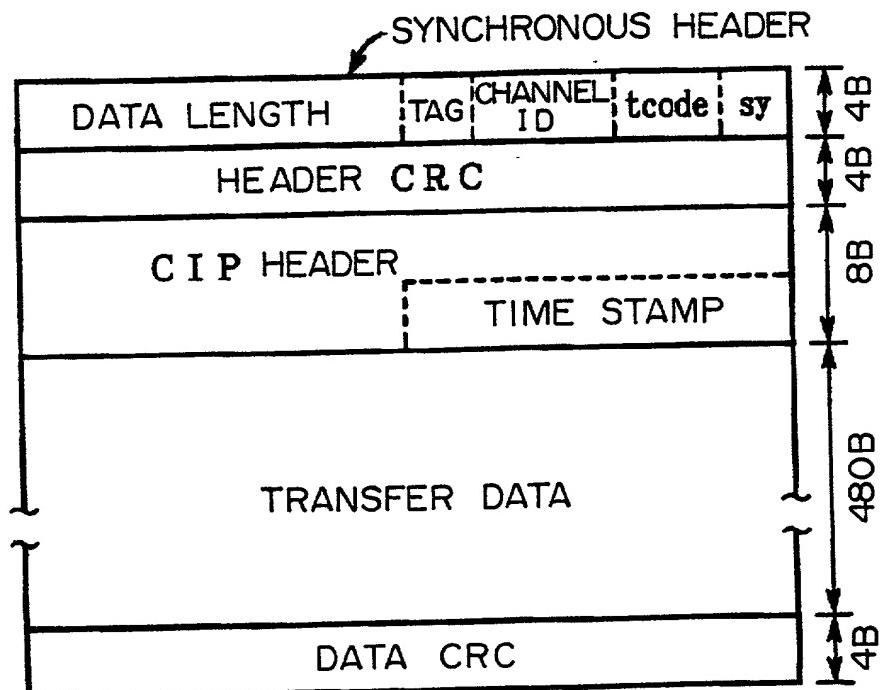


FIG. 6B PRIOR ART

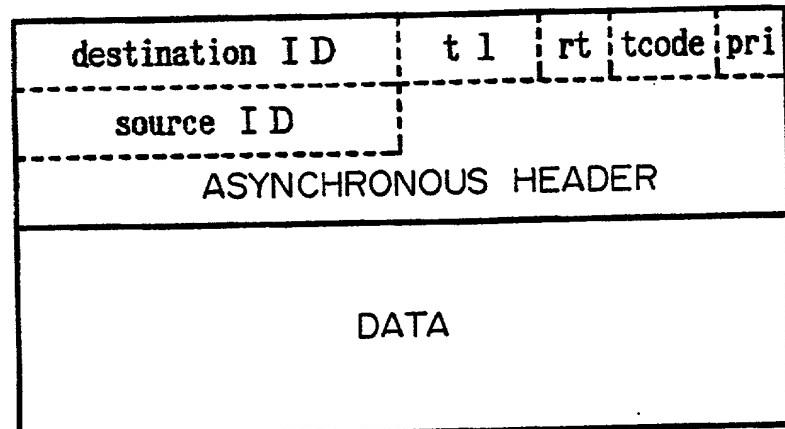


FIG. 6C PRIOR ART

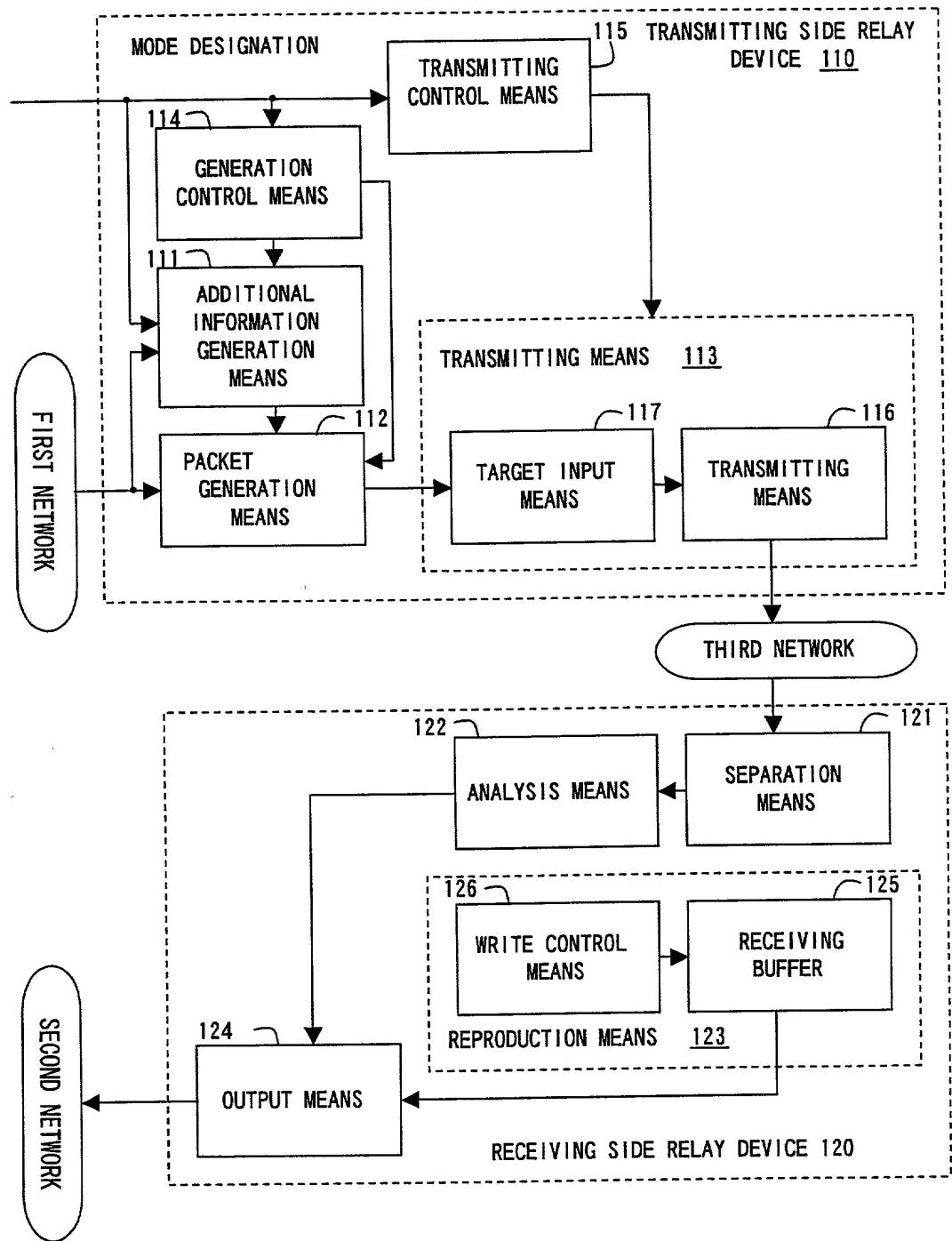


FIG. 7

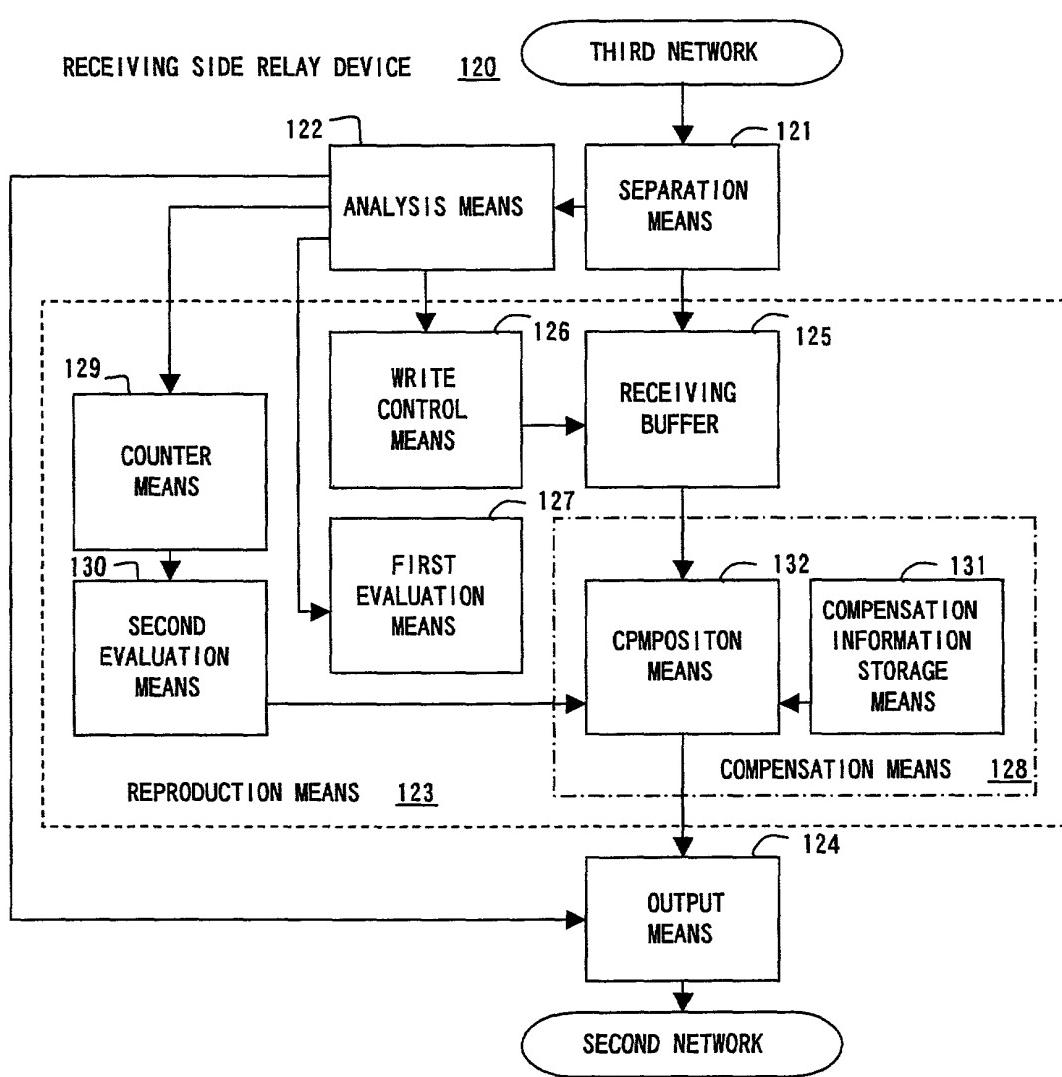
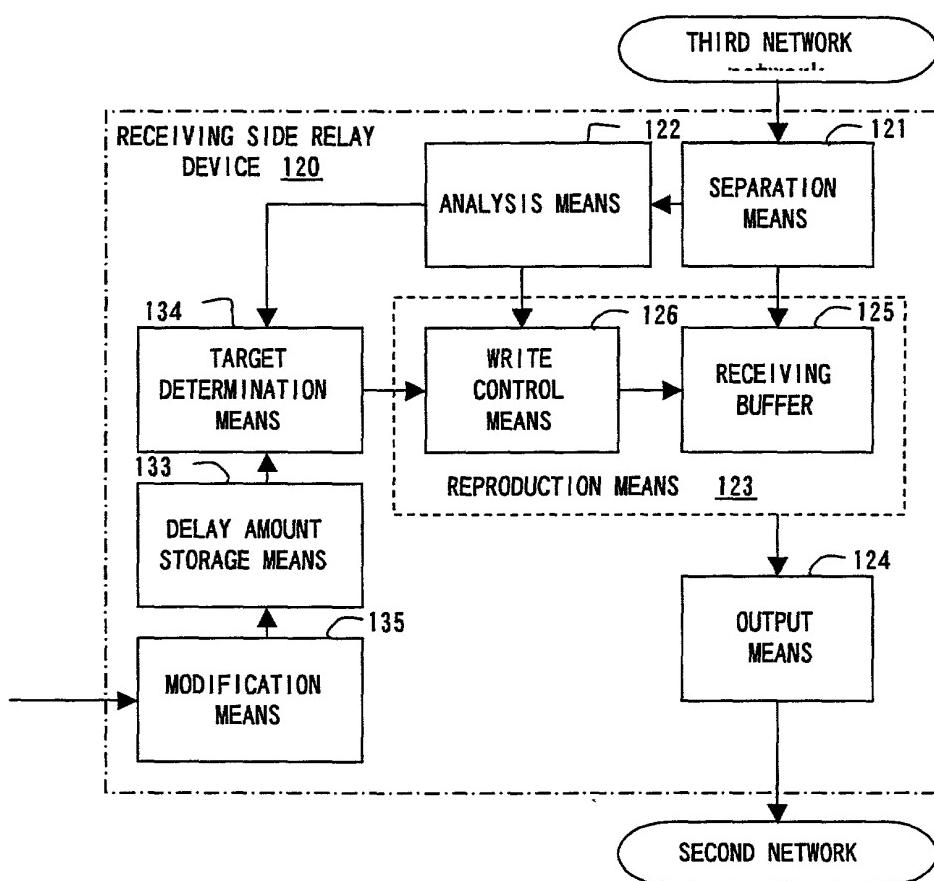


FIG. 8



F I G. 9

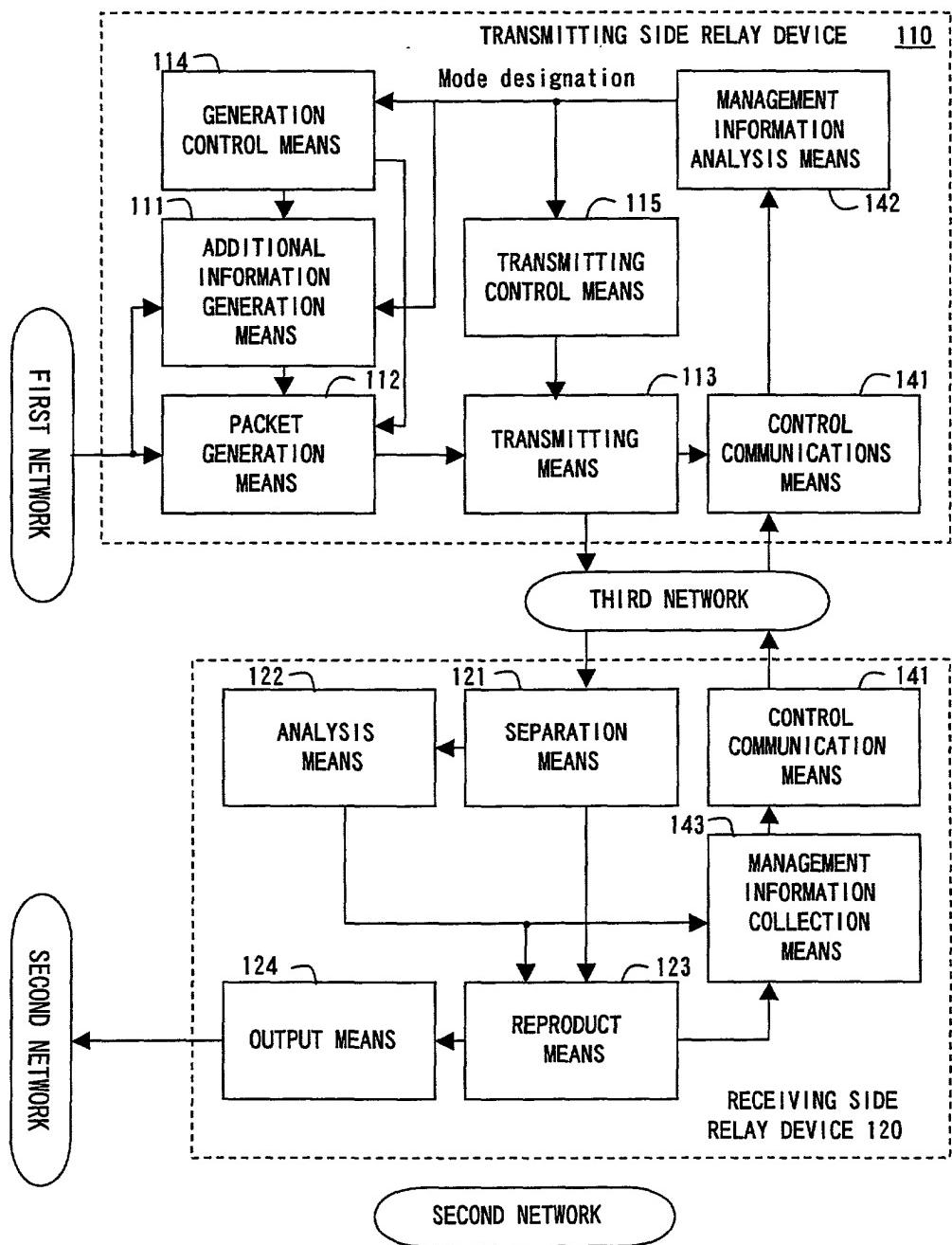
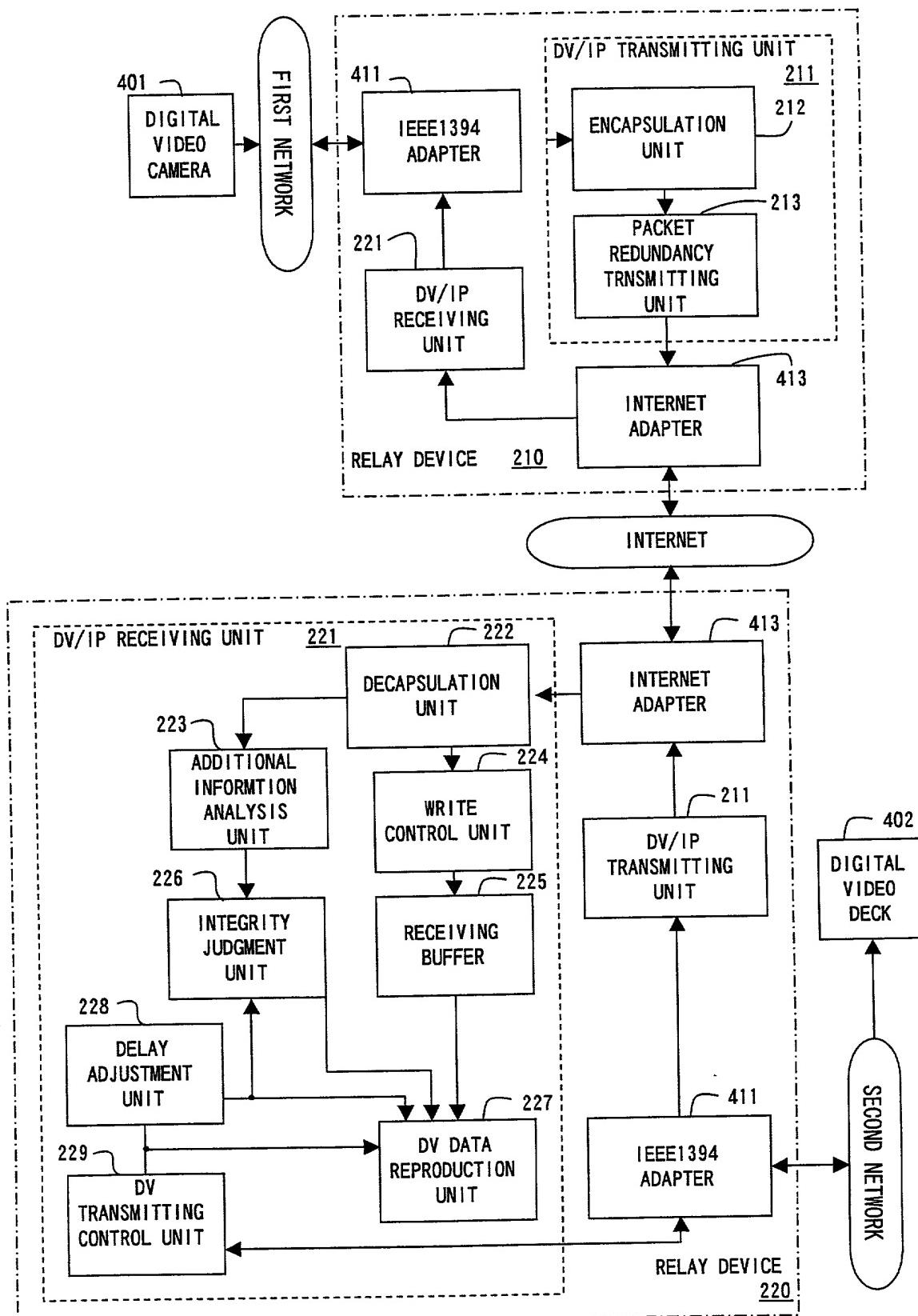
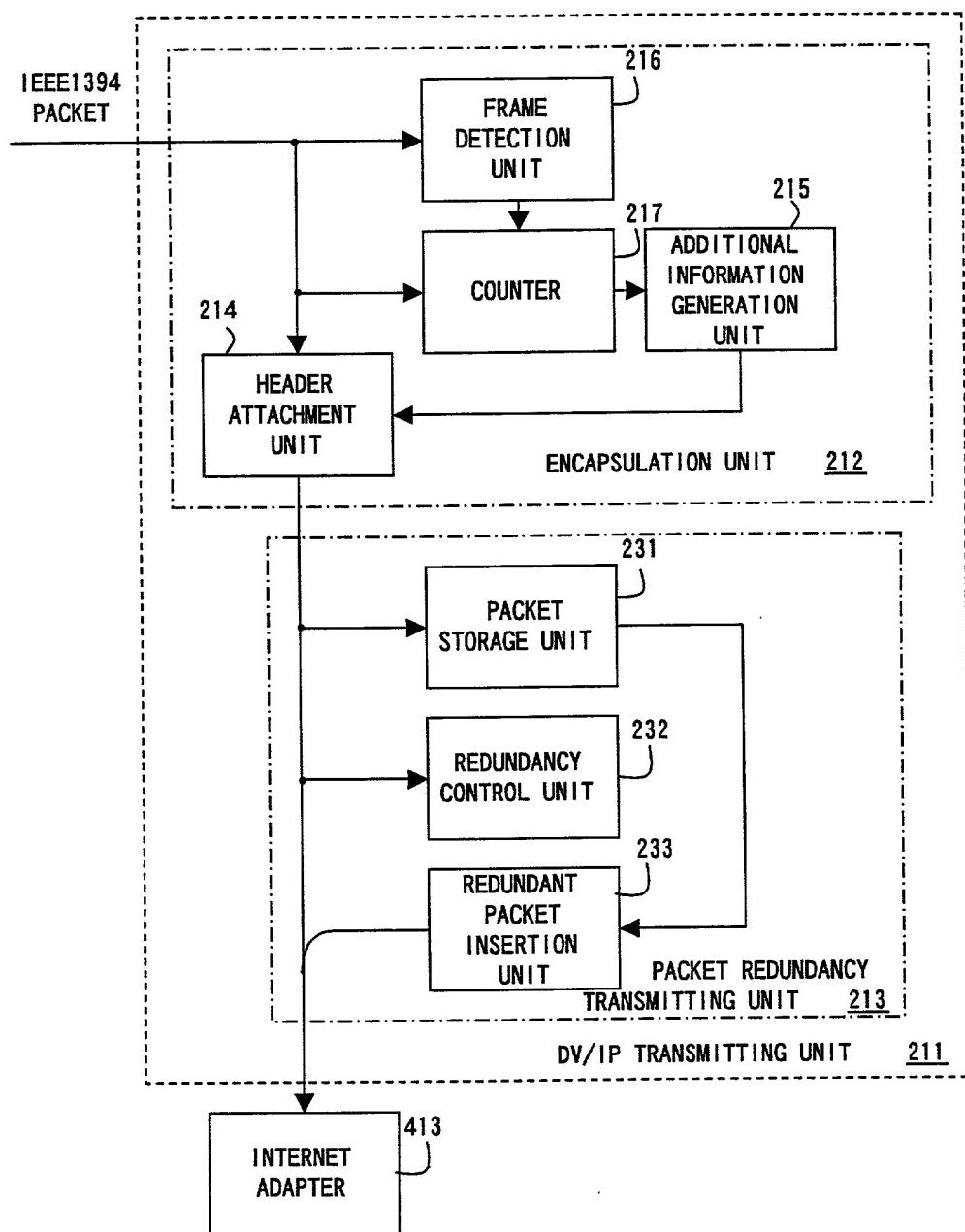


FIG. 10



F I G . 1 1



F I G. 1 2

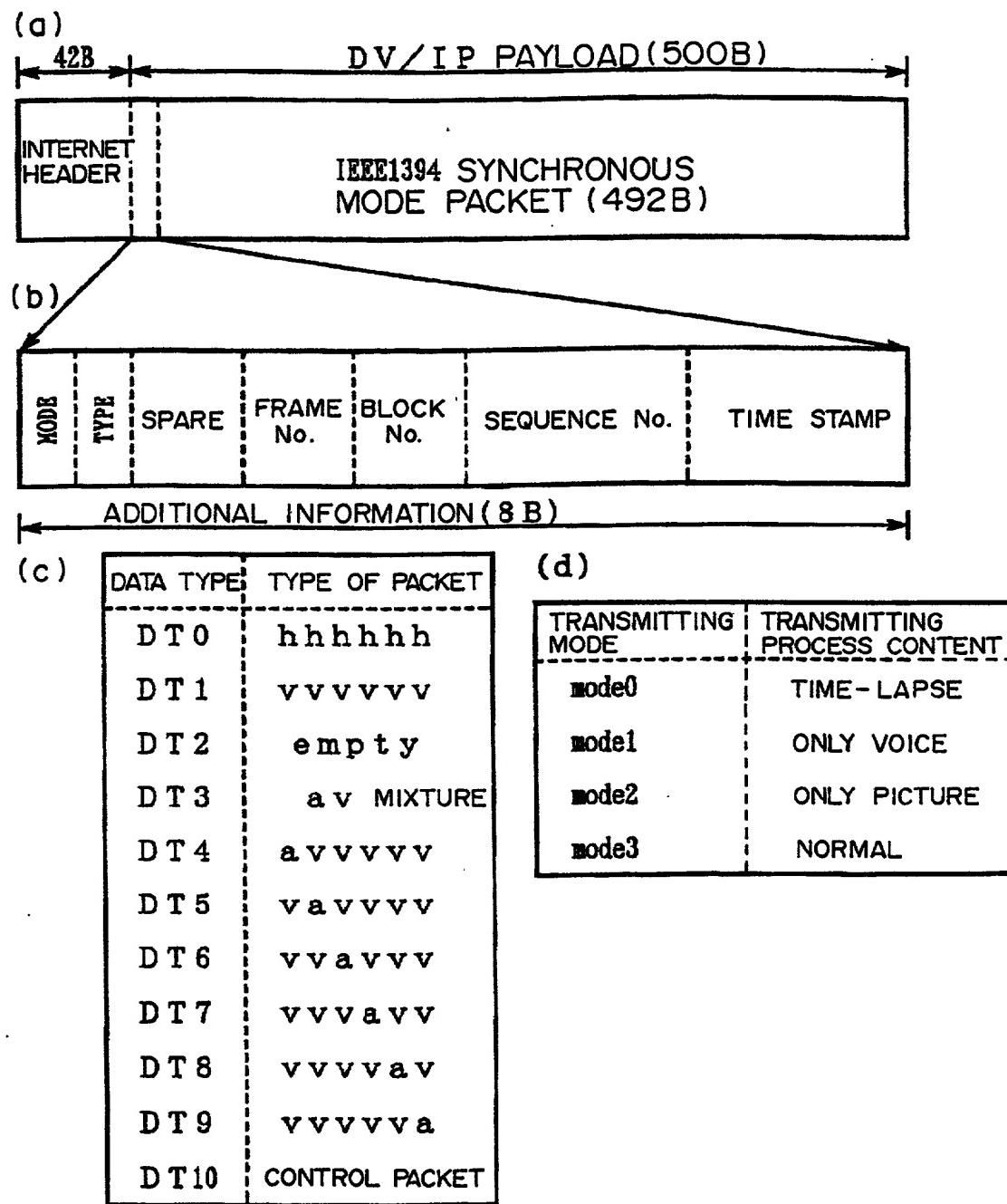
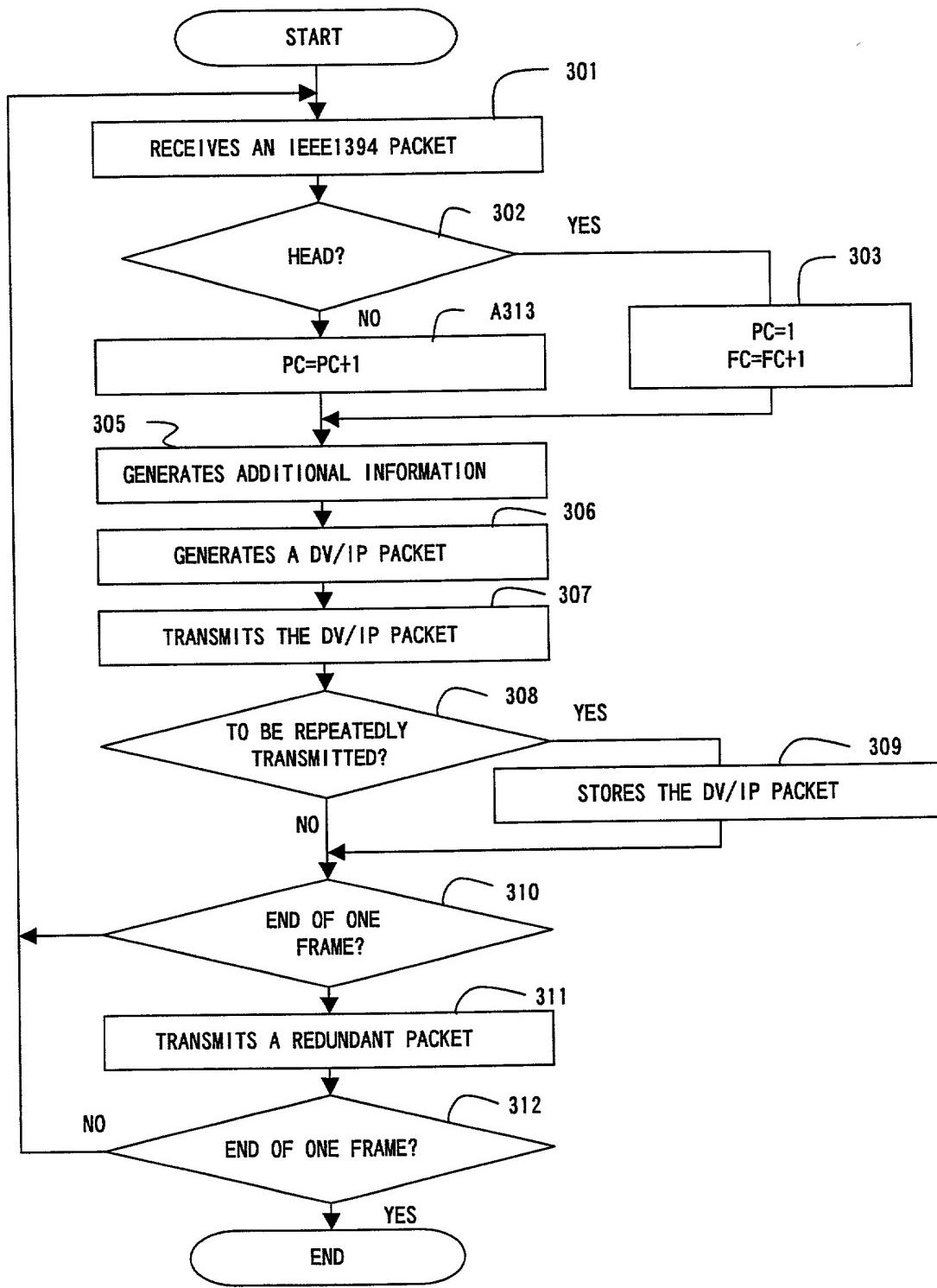


FIG. 13



F I G. 14

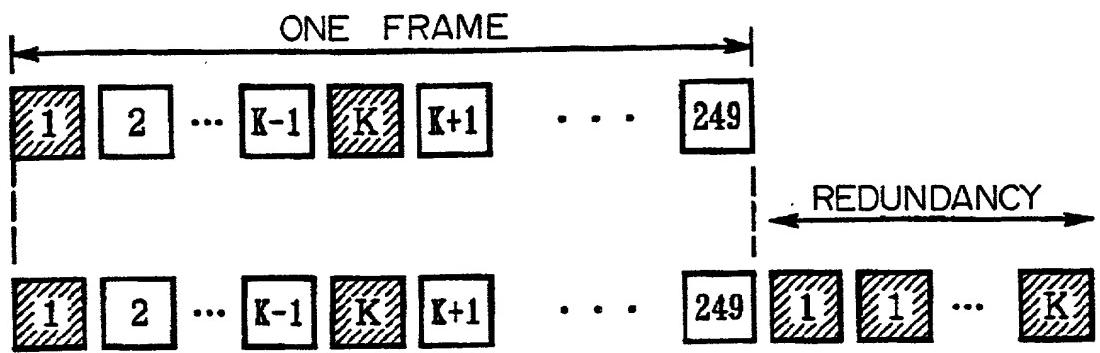


FIG. 15A

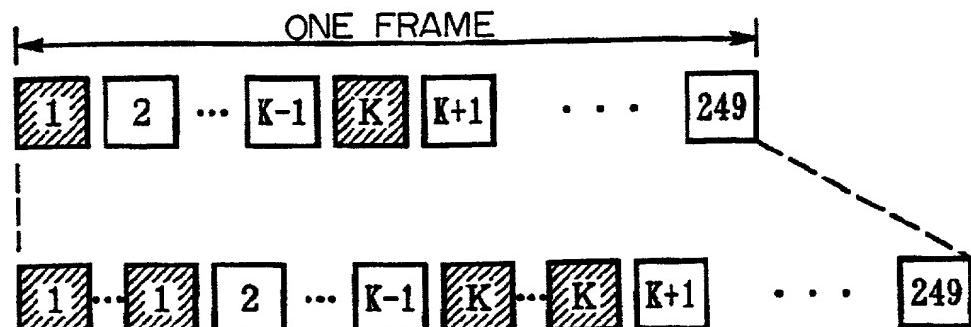


FIG. 15B

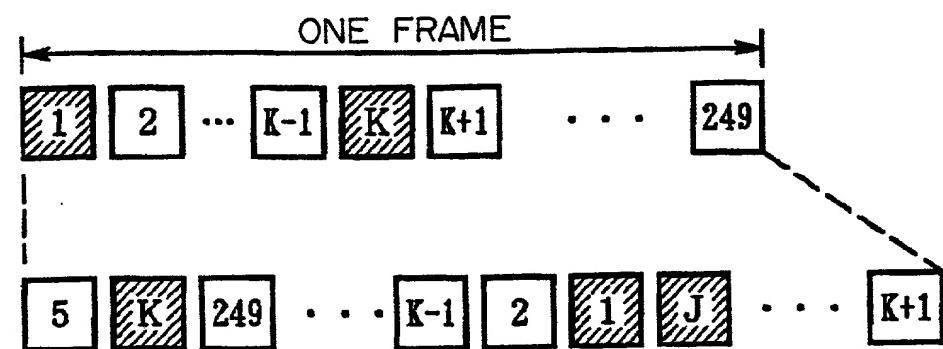
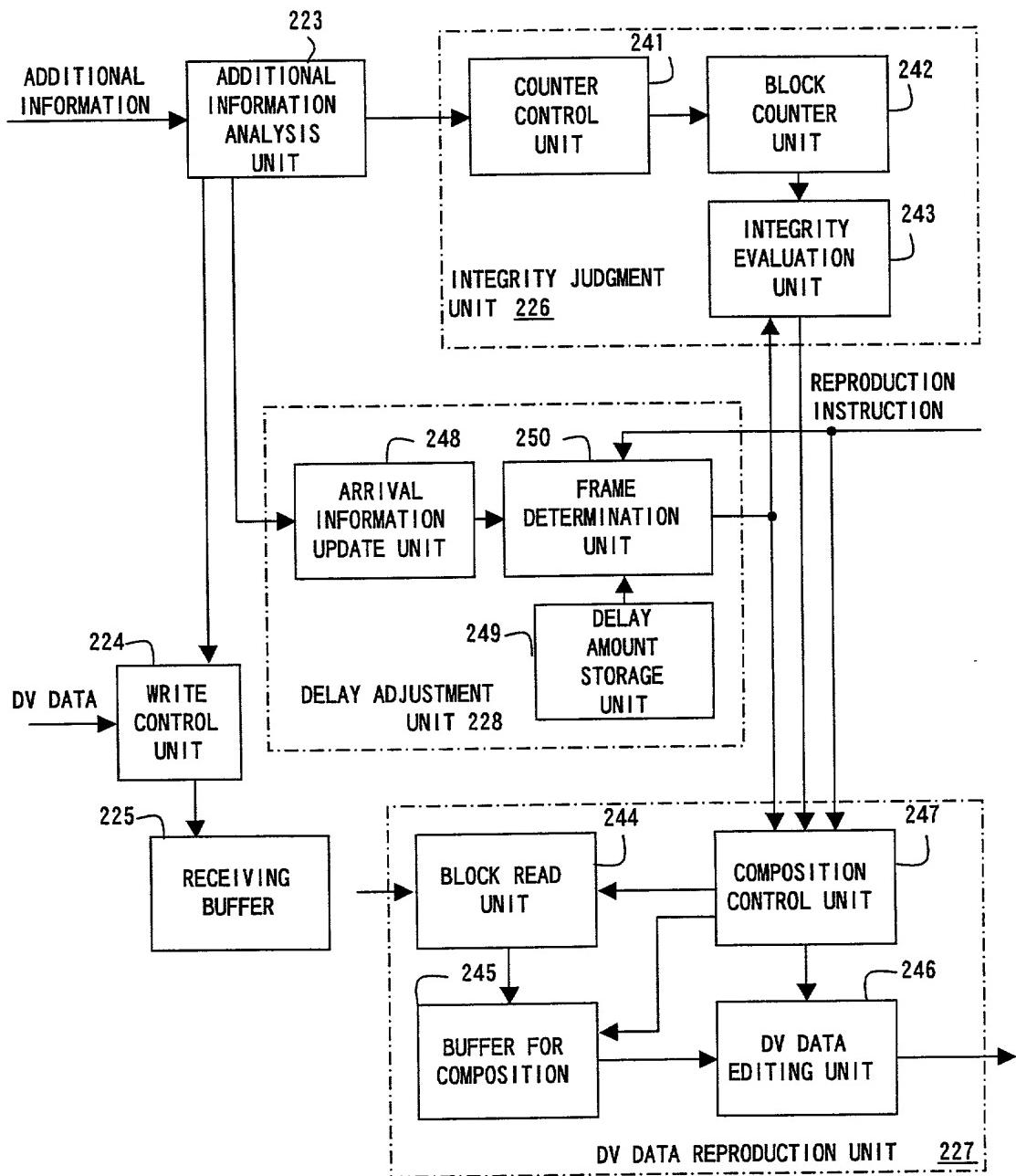


FIG. 15C



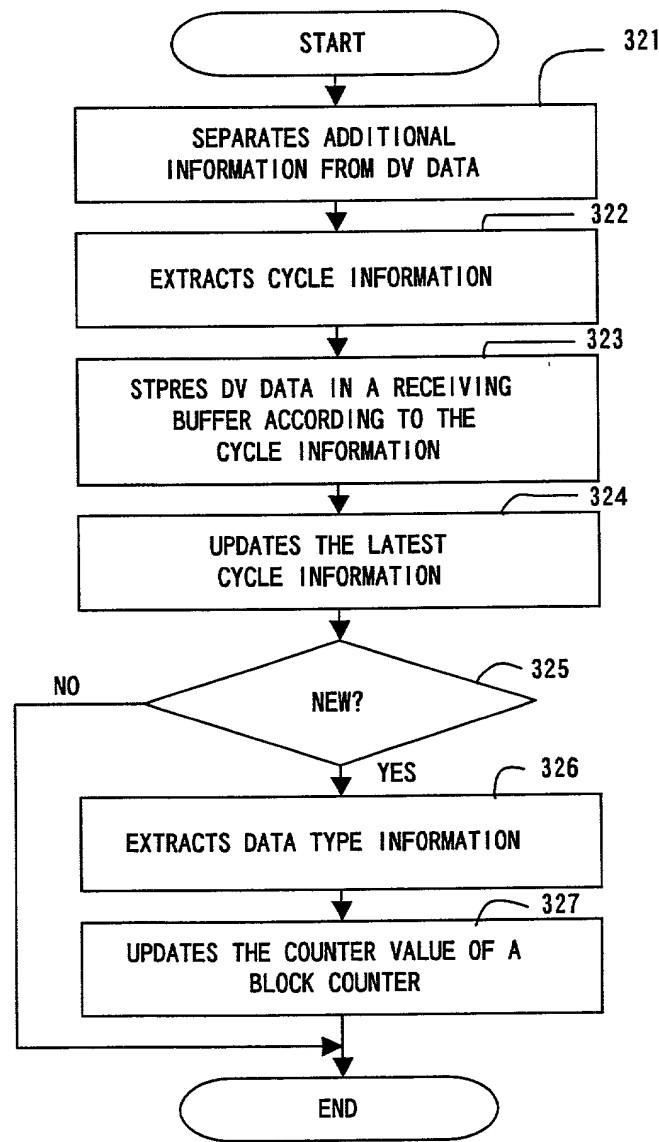
F I G. 1 6

BLOCK No.	FRAME(0)	FRAME(1)	...	FRAME(K)
0	DV _{0, 0}	DV _{1, 0}	...	DV _{K, 0}
1	DV _{0, 1}	DV _{1, 1}	...	DV _{K, 1}
2	DV _{0, 2}	DV _{1, 2}	...	DV _{K, 2}
...
249	DV _{0, 249}	DV _{1, 249}	...	DV _{K, 249}

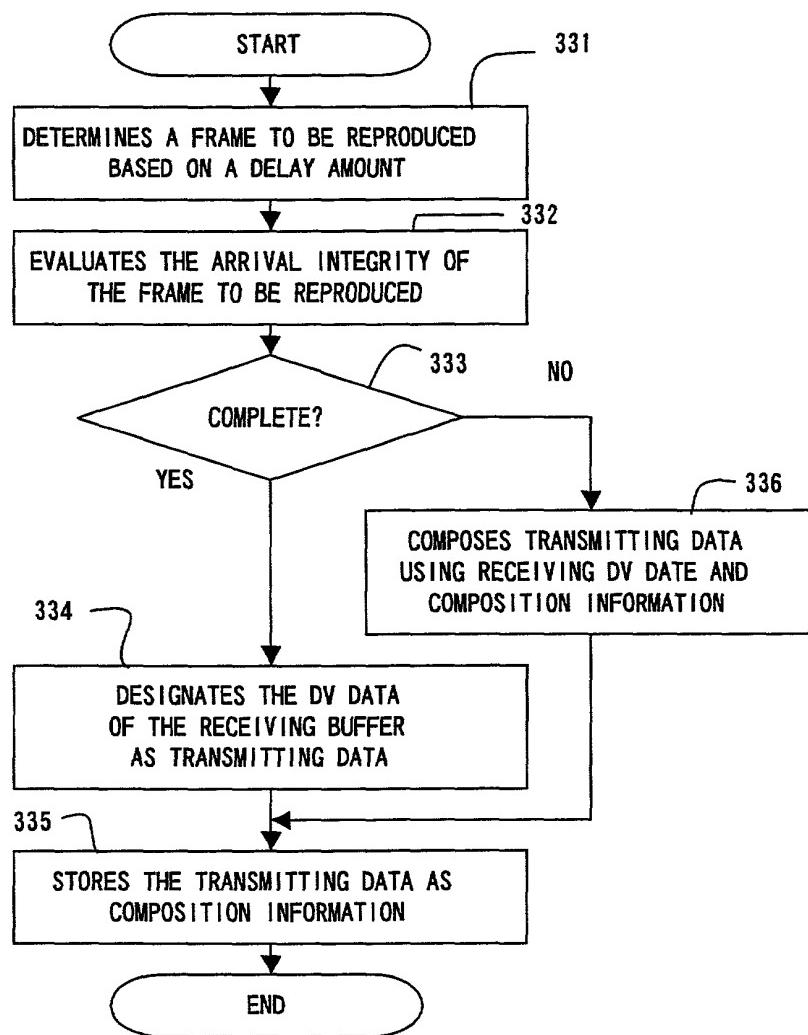
FIG. 17A

	FRAME(0)	FRAME(1)	...	FRAME(K)
RECEIVING BLOCK	RBC0	RBC1	...	RBCK
FRAME HEADER	FHC0	FHC1	...	FHCK
AUDIO BLOCK	ABC0	ABC1	...	ABCK
VIDEO BLOCK	VBC0	VBC1	...	VBCK

FIG. 17B



F I G. 18A



F I G. 18 B

FIRST BUFFER	SECOND BUFFER	PACKET No.	TRANSMITTING DATA
$DV_{(n-1, 0)}$	$DV_{(n, 0)}$	0	$DV_{(n, 0)}$
$DV_{(n-1, 1)}$	$DV_{(n, 1)}$	1	$DV_{(n, 1)}$
$DV_{(n-1, 2)}$	LOST	2	$DV_{(n-1, 2)}$
:	:	:	:
$DV_{(n-1, 249)}$	$DV_{(n, 249)}$	249	$DV_{(n, 249)}$

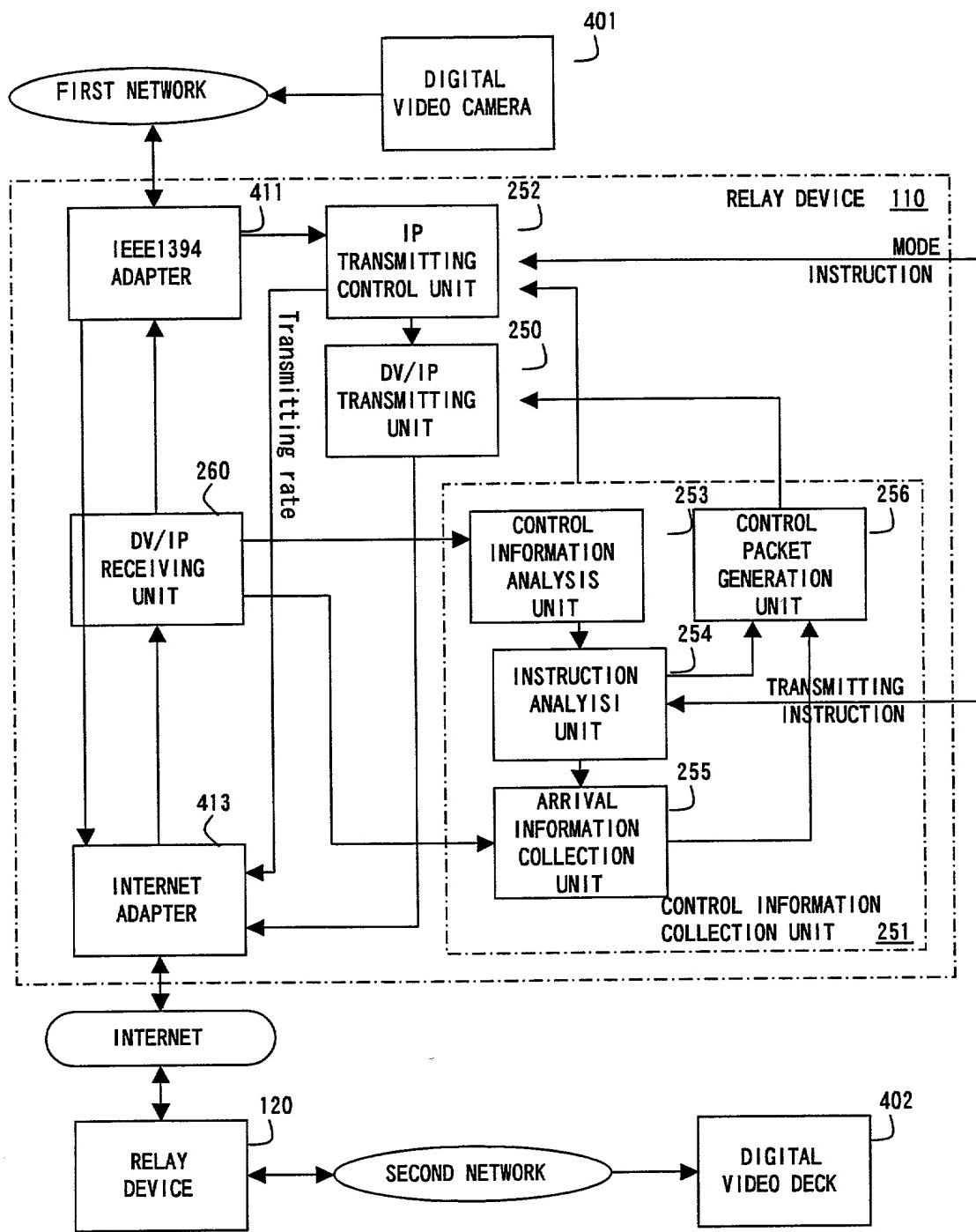
FIG. 19A

PACKET No.	FIRST BUFFER	SECOND BUFFER
0	FH_{n-1}	FH_n
1	$a_{n-1} V_{n-1} V_{n-1} V_{n-1} V_{n-1} V_{n-1}$	$a_n V_n V_n V_n V_n V_n$
2	$V_{n-1} V_{n-1} V_{n-1} V_{n-1} V_{n-1} V_{n-1}$	LOST
3	$V_{n-1} V_{n-1} V_{n-1} V_{n-1} a_{n-1} V_{n-1}$	$V_n V_n V_n V_n a_n V_n$
:	:	:
249	$V_{n-1} V_{n-1} V_{n-1} V_{n-1} V_{n-1} V_{n-1}$	LOST

FIG. 19B

PACKET No.	TRANSMITTING DATA
0	FH_{n-1}
1	$a_n V_{n-1} V_{n-1} V_{n-1} V_{n-1} V_{n-1}$
2	$V_{n-1} V_{n-1} V_{n-1} V_{n-1} V_{n-1} V_{n-1}$
3	$V_{n-1} V_{n-1} V_{n-1} V_{n-1} a_n V_{n-1}$
:	:
249	$V_{n-1} V_{n-1} V_{n-1} V_{n-1} V_{n-1} V_{n-1}$

FIG. 19C



F I G. 2 0

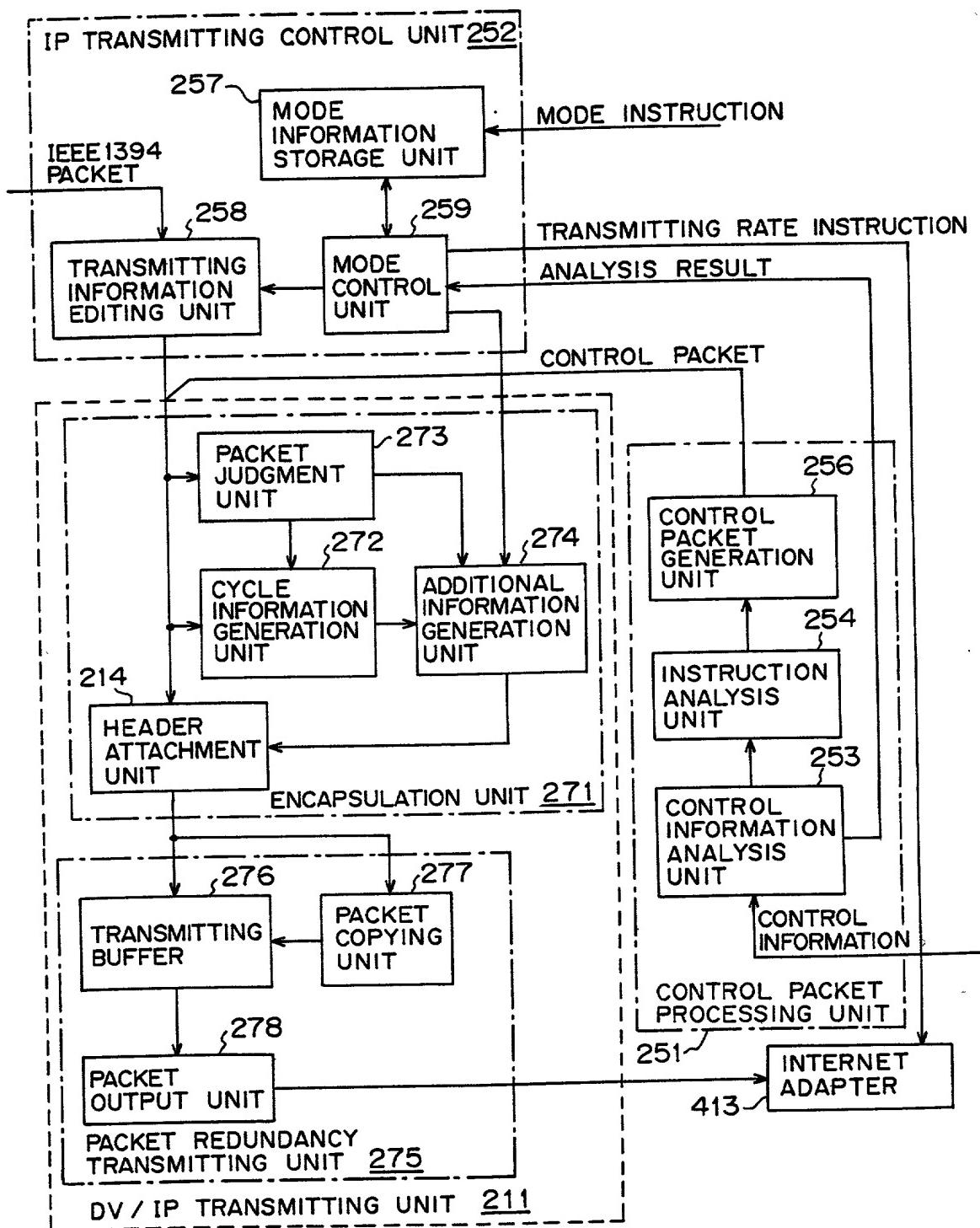
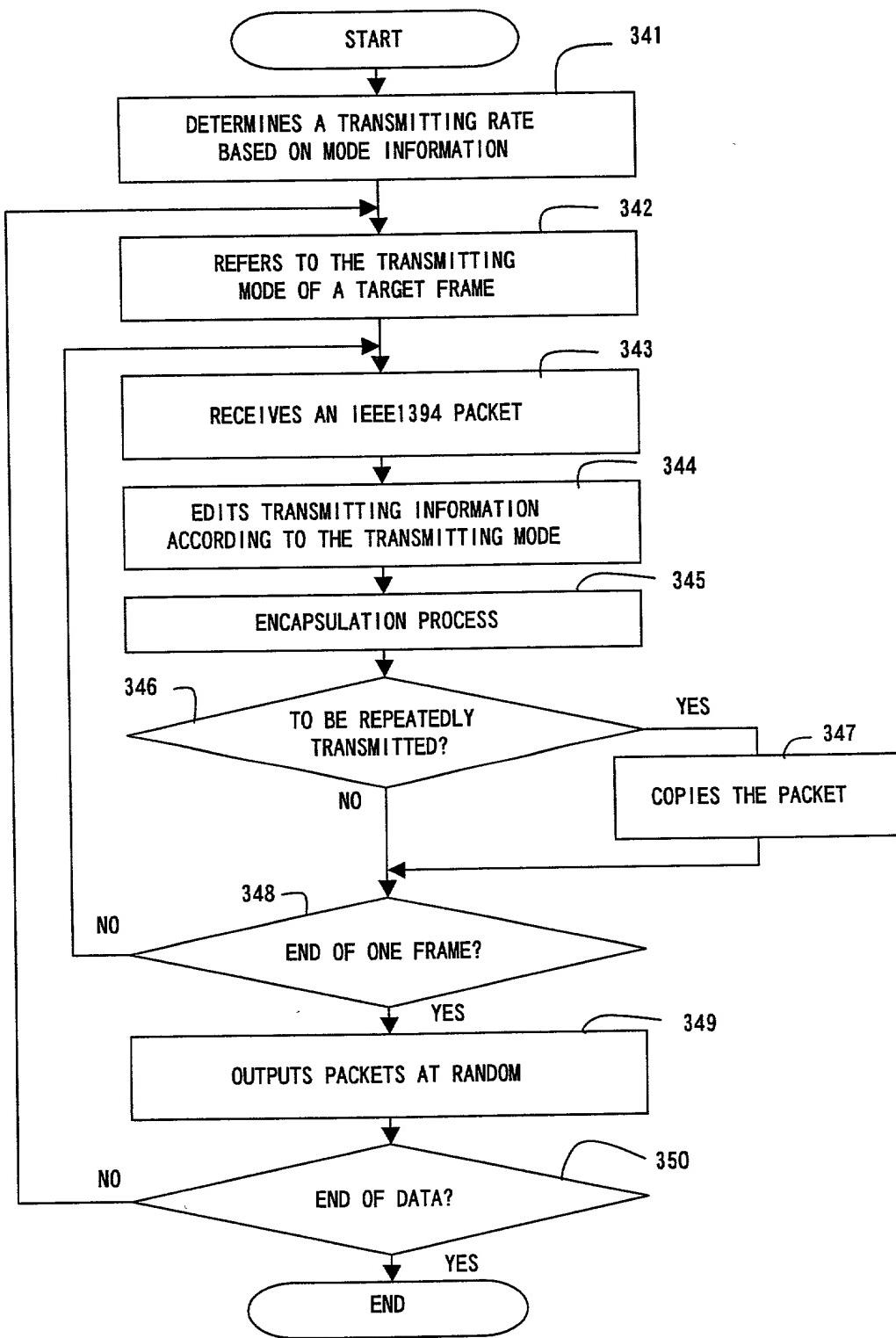
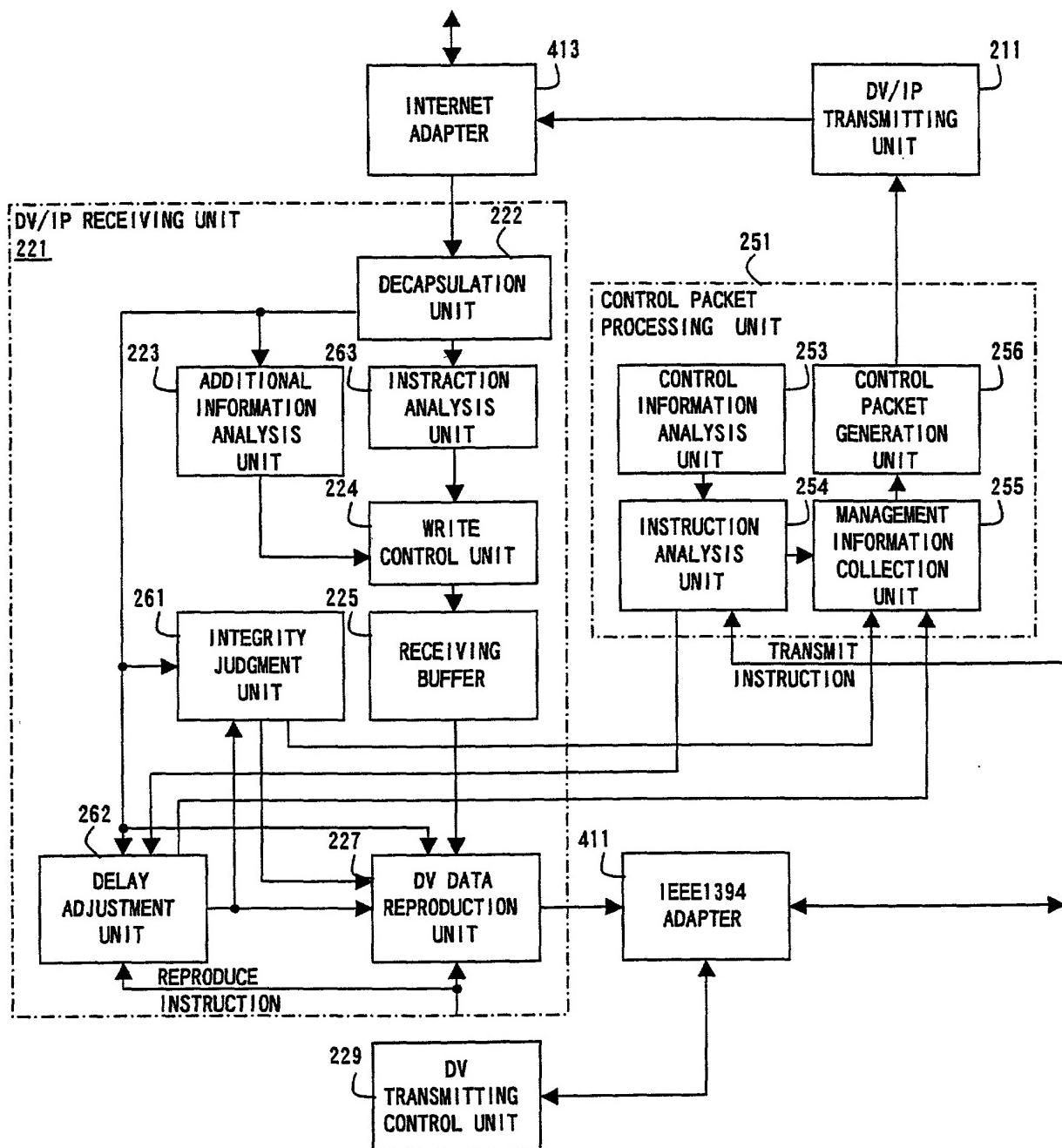


FIG. 21



F I G. 2 2



F I G. 2 3

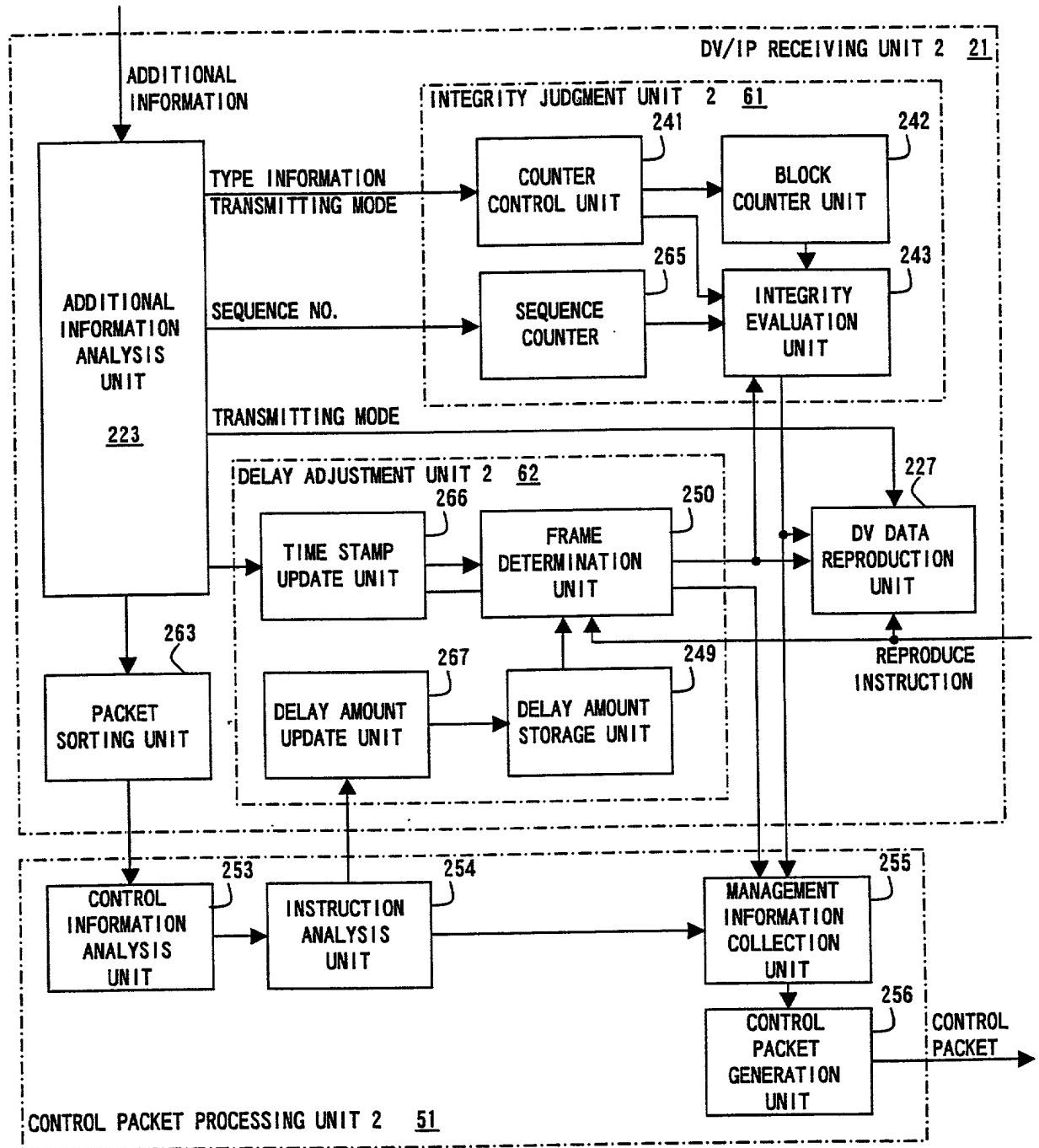
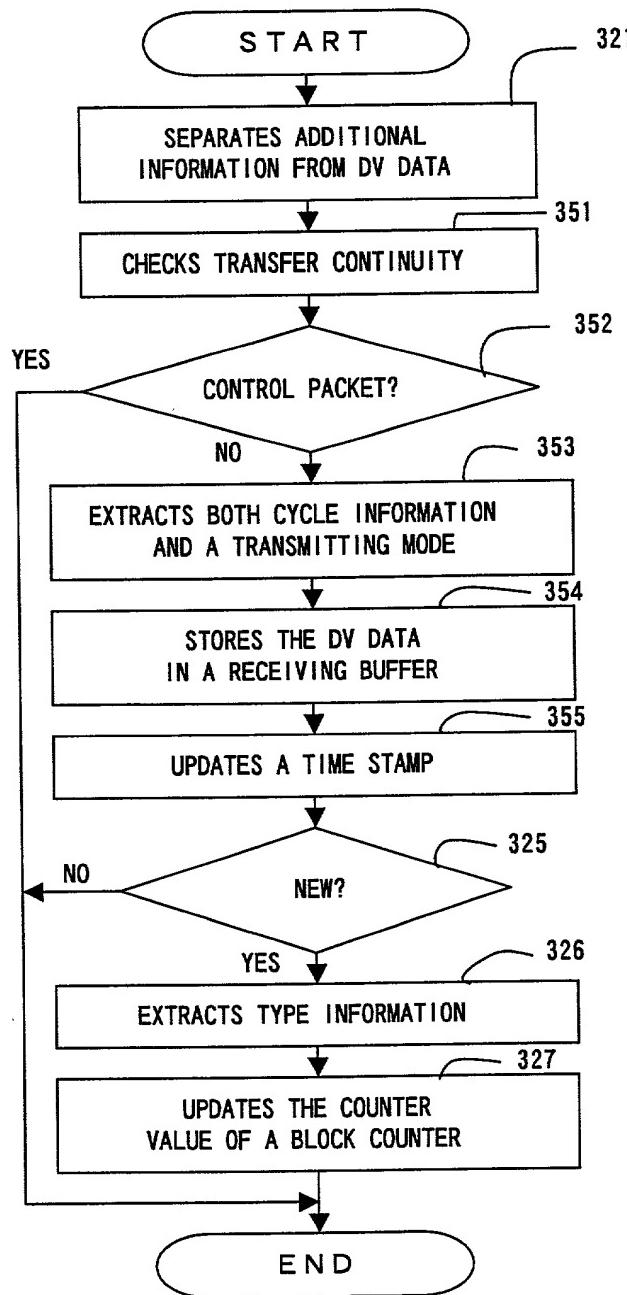
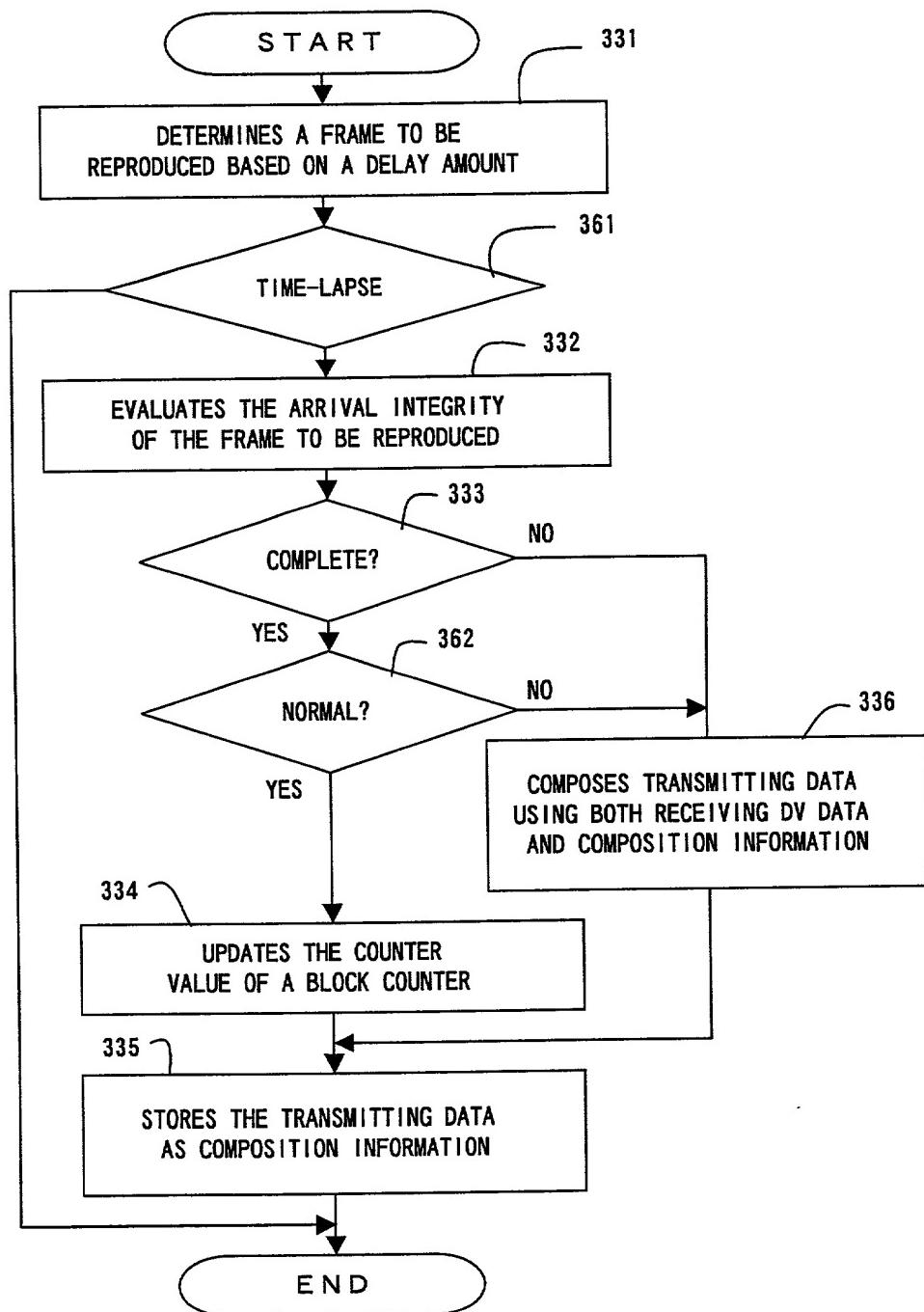


FIG. 24



F I G. 25A



F I G. 25 B

FIG. 26A shows the sequence of packets transmitted over a channel.

PACKET No.	ONLY VOICE	ONLY PICTURE
0	FH	FH
1	a v v v v v	- v v v v v v
2	- - - - - -	v v v v v v
3	v v v v a v	v v v v v - v
:	:	:
249	- - - - - -	v v v v v v

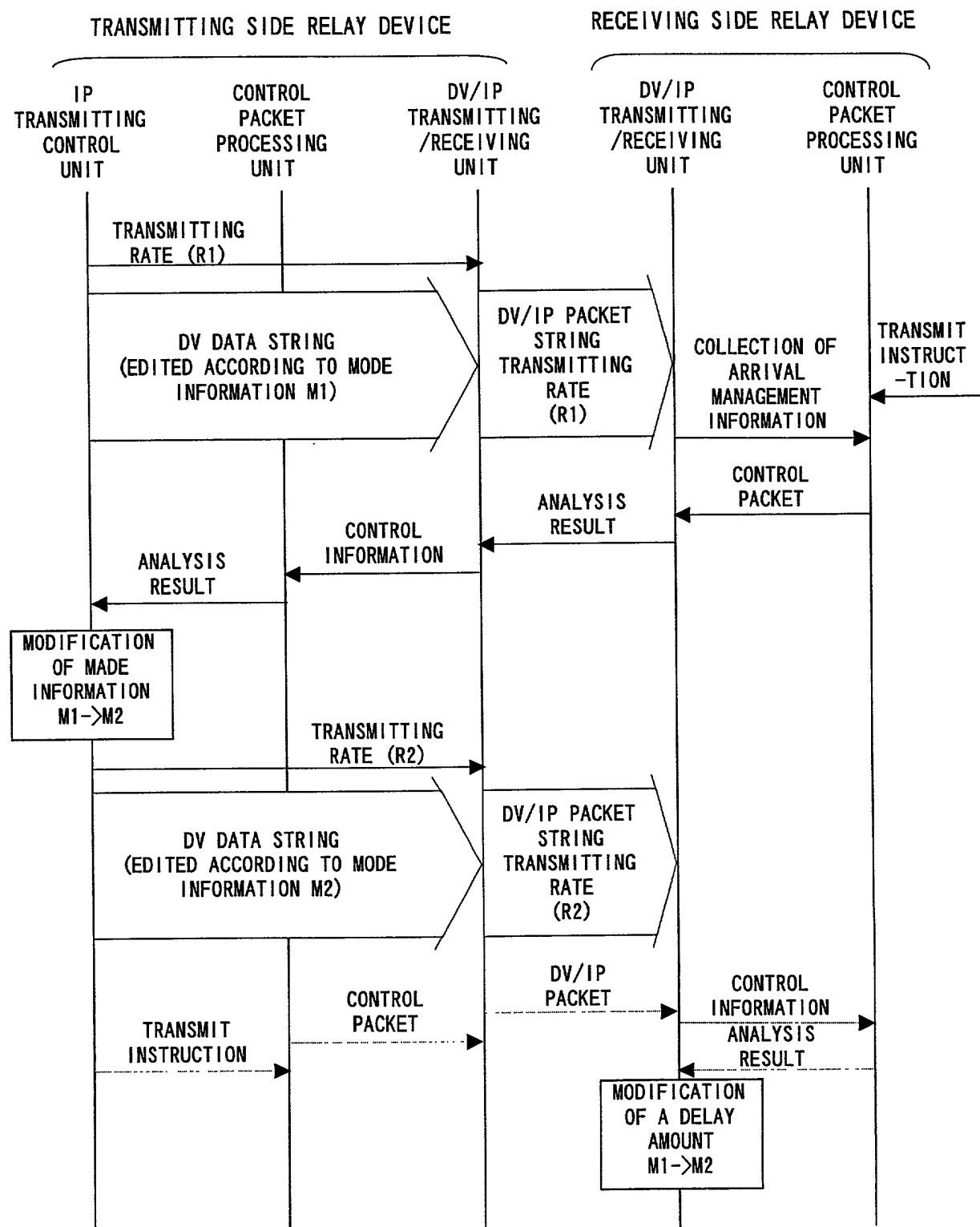
FIG. 26A

PACKET No.	FIRST BUFFER	SECOND BUFFER
0	FH _{n-1}	FH _n
1	a _{n-1} v _{n-1} v _{n-1} v _{n-1} v _{n-1} v _{n-1}	a _n - - - - -
2	v _{n-1} v _{n-1} v _{n-1} v _{n-1} v _{n-1} v _{n-1}	- - - - - -
3	v _{n-1} v _{n-1} v _{n-1} v _{n-1} a _{n-1} v _{n-1}	- - - - - a _n
:	:	:
249	v _{n-1} v _{n-1} v _{n-1} v _{n-1} v _{n-1} v _{n-1}	- - - - - -

FIG. 26B

PACKET No.	TRANSMITTING DATA
0	FH _{n-1}
1	a _n v _{n-1} v _{n-1} v _{n-1} v _{n-1} v _{n-1}
2	v _{n-1} v _{n-1} v _{n-1} v _{n-1} v _{n-1} v _{n-1}
3	v _{n-1} v _{n-1} v _{n-1} v _{n-1} a _n v _{n-1}
:	:
249	v _{n-1} v _{n-1} v _{n-1} v _{n-1} v _{n-1} v _{n-1}

FIG. 26C



F I G . 2 7

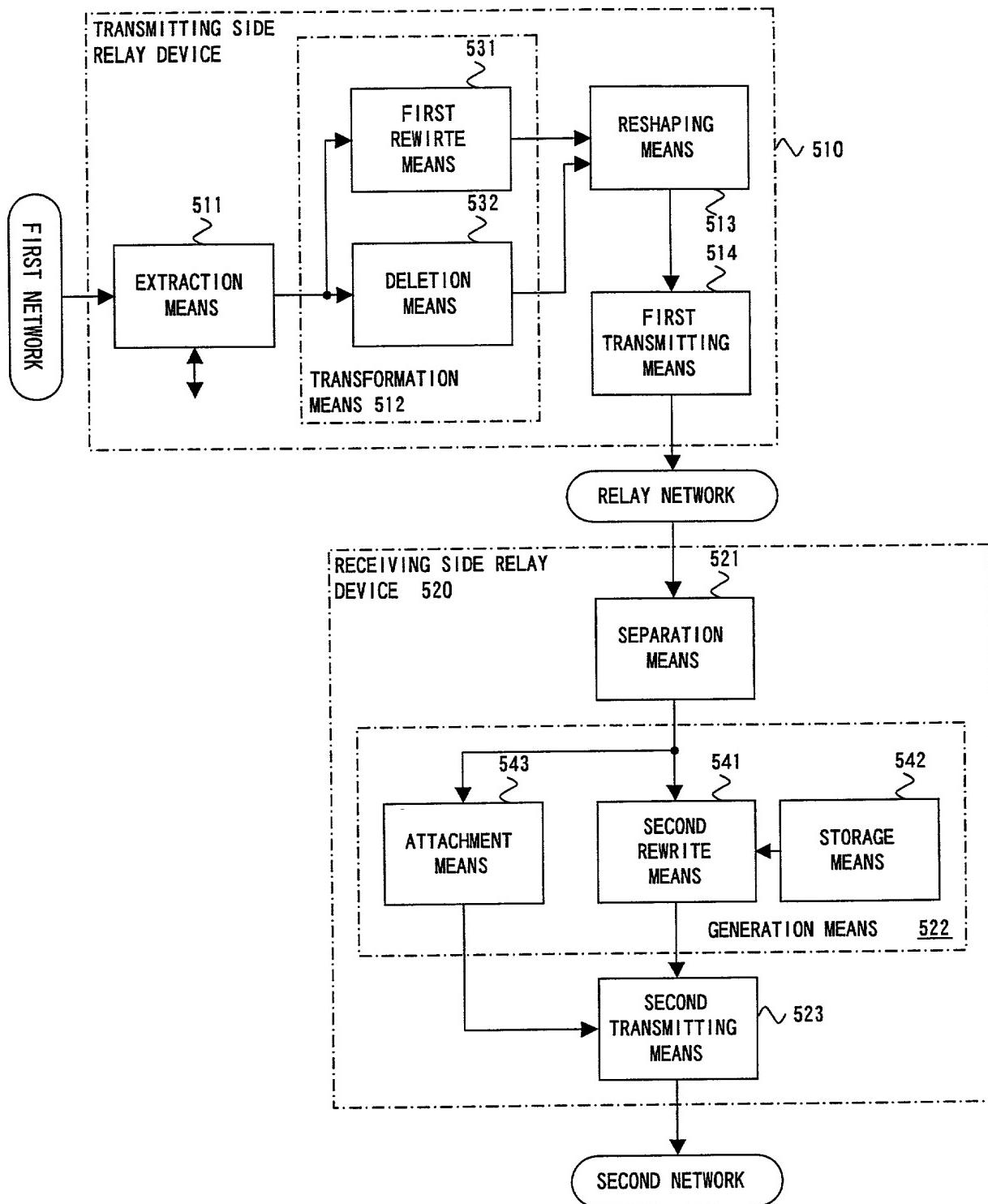
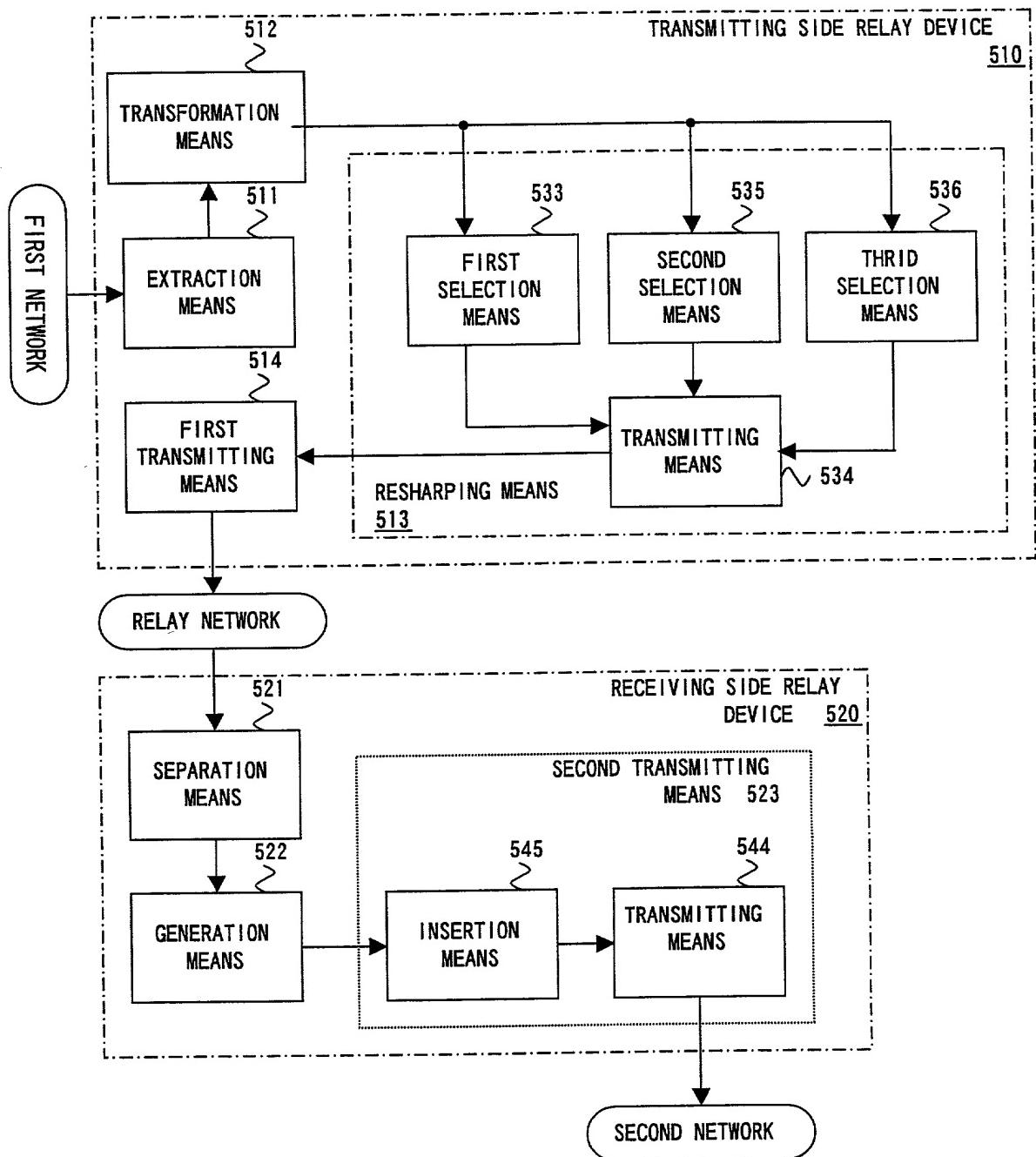
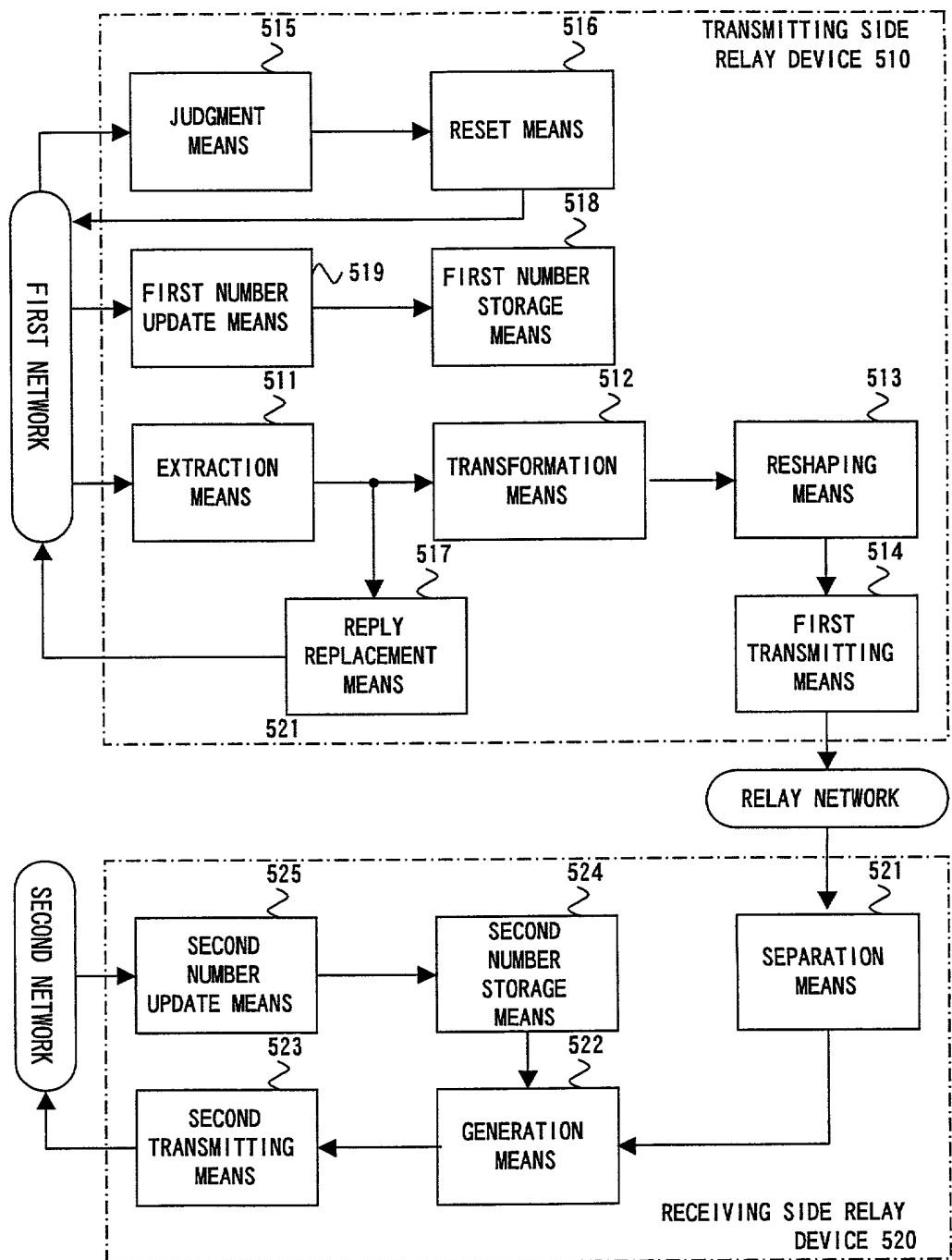


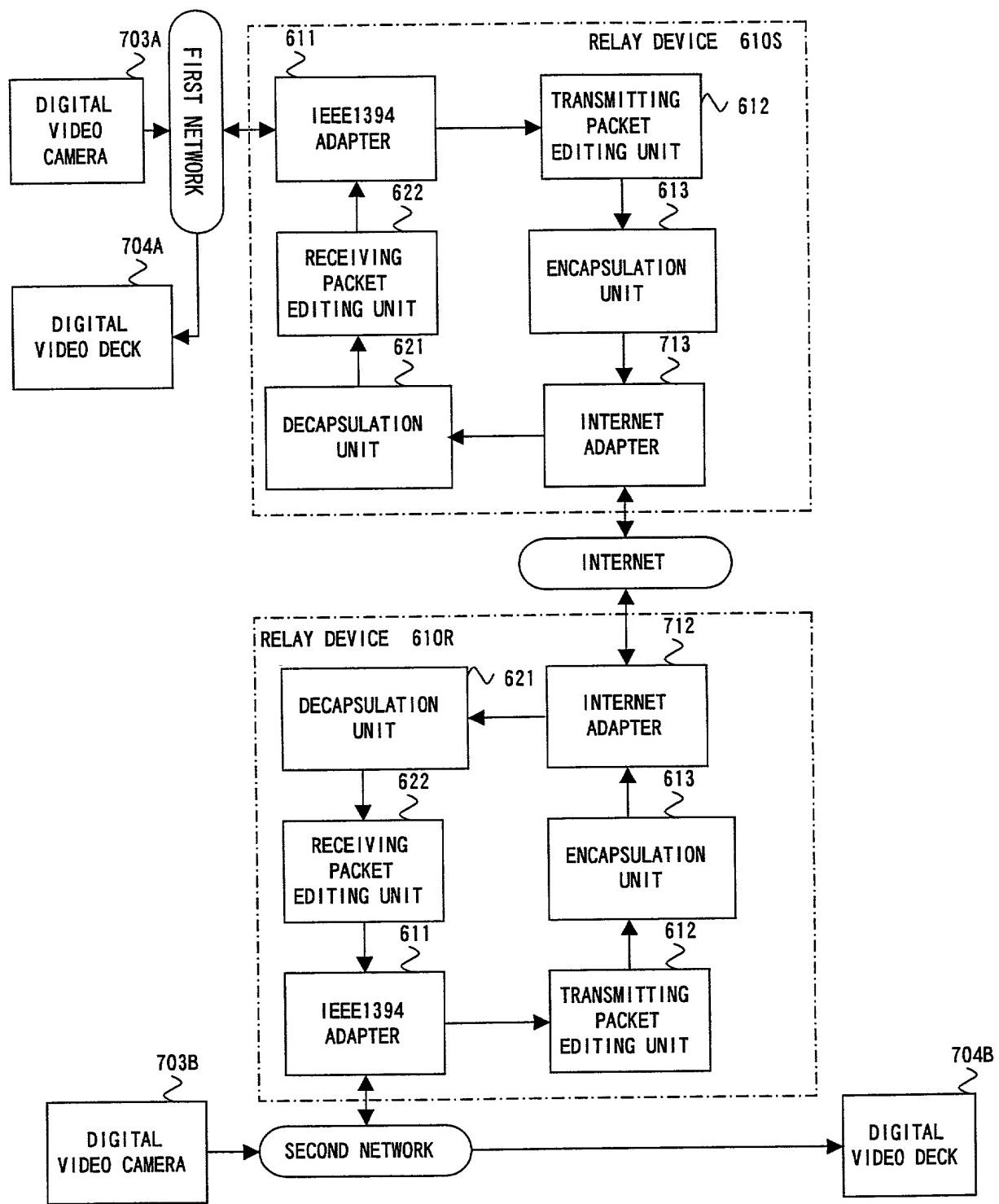
FIG. 28



F I G. 2 9



F I G. 30



F I G. 3 1

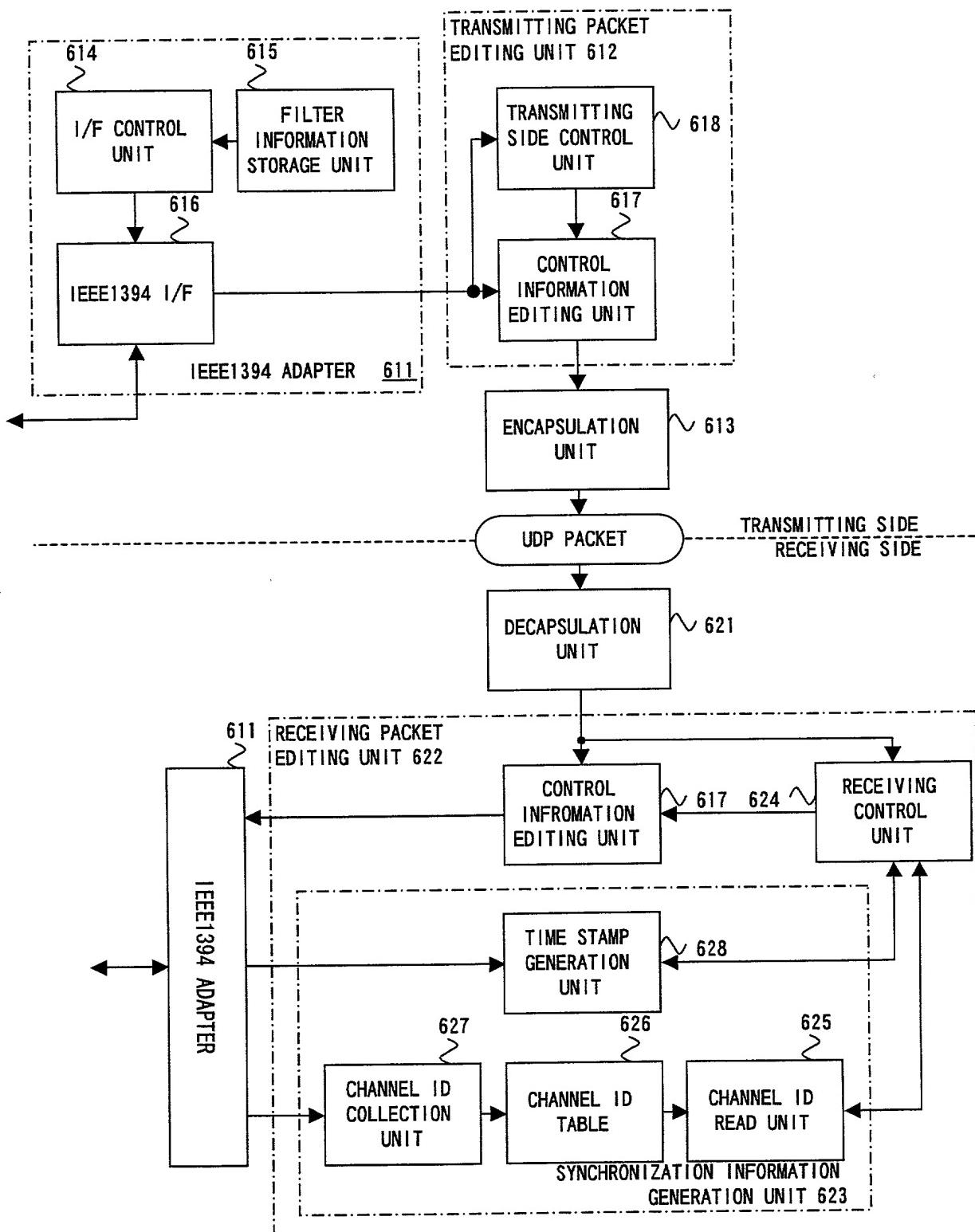


FIG. 32

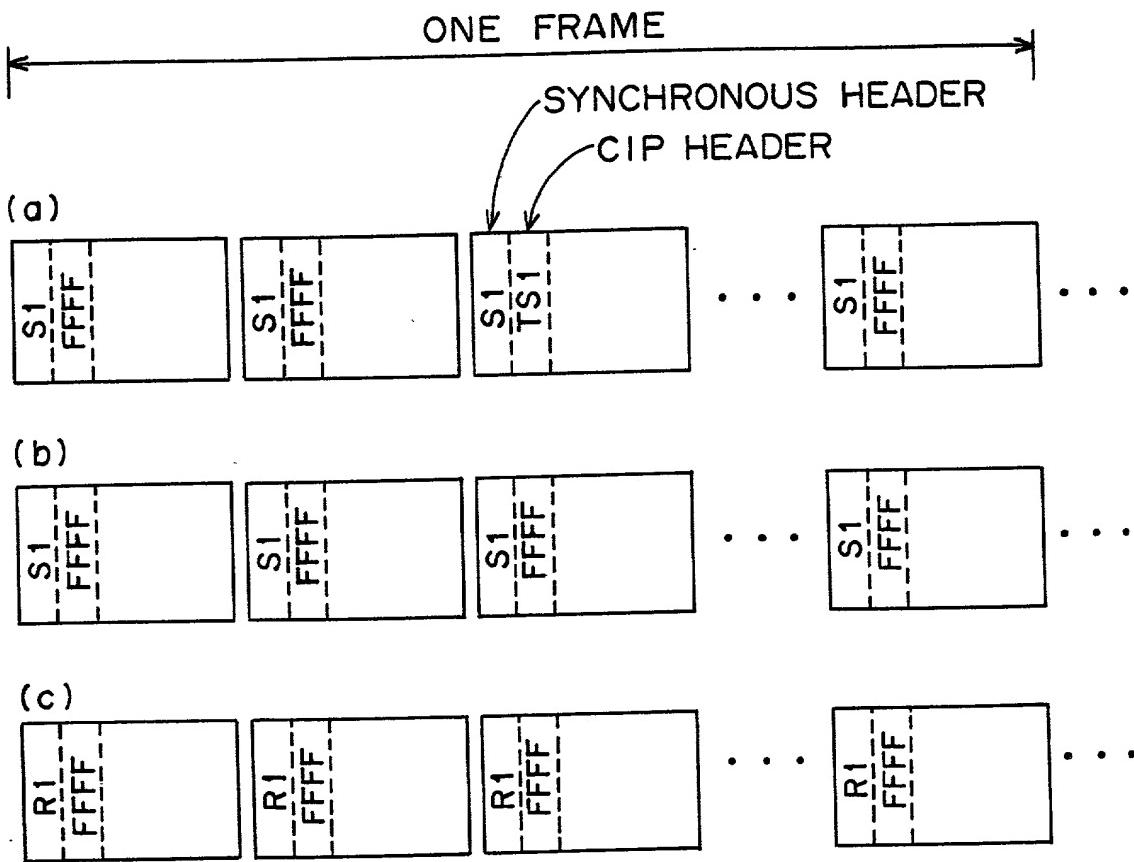


FIG. 33

TRANSMITTING SIDE CHANNEL ID	RECEIVING SIDE CHANNEL ID
S 1	R 1
.	.
.	.

FIG. 34A

TRANSMITTING SIDE CHANNEL ID	NETWORK ADDRESS	RECEIVING SIDE CHANNEL ID
S 1	N 1	R 1
S 1	N 2	R 2
S 2	N 1	R 3
.	.	.
.	.	.

FIG. 34B

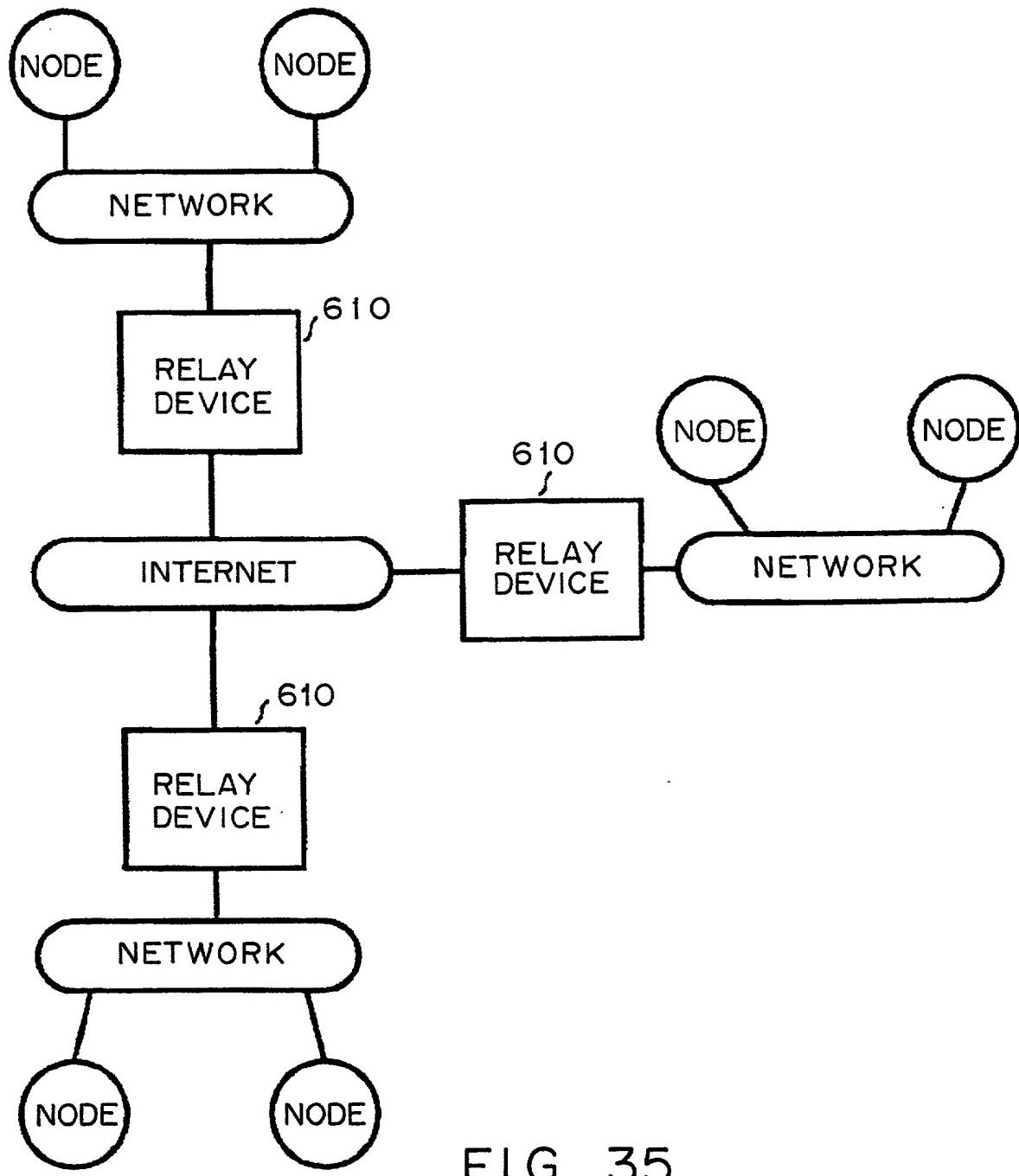
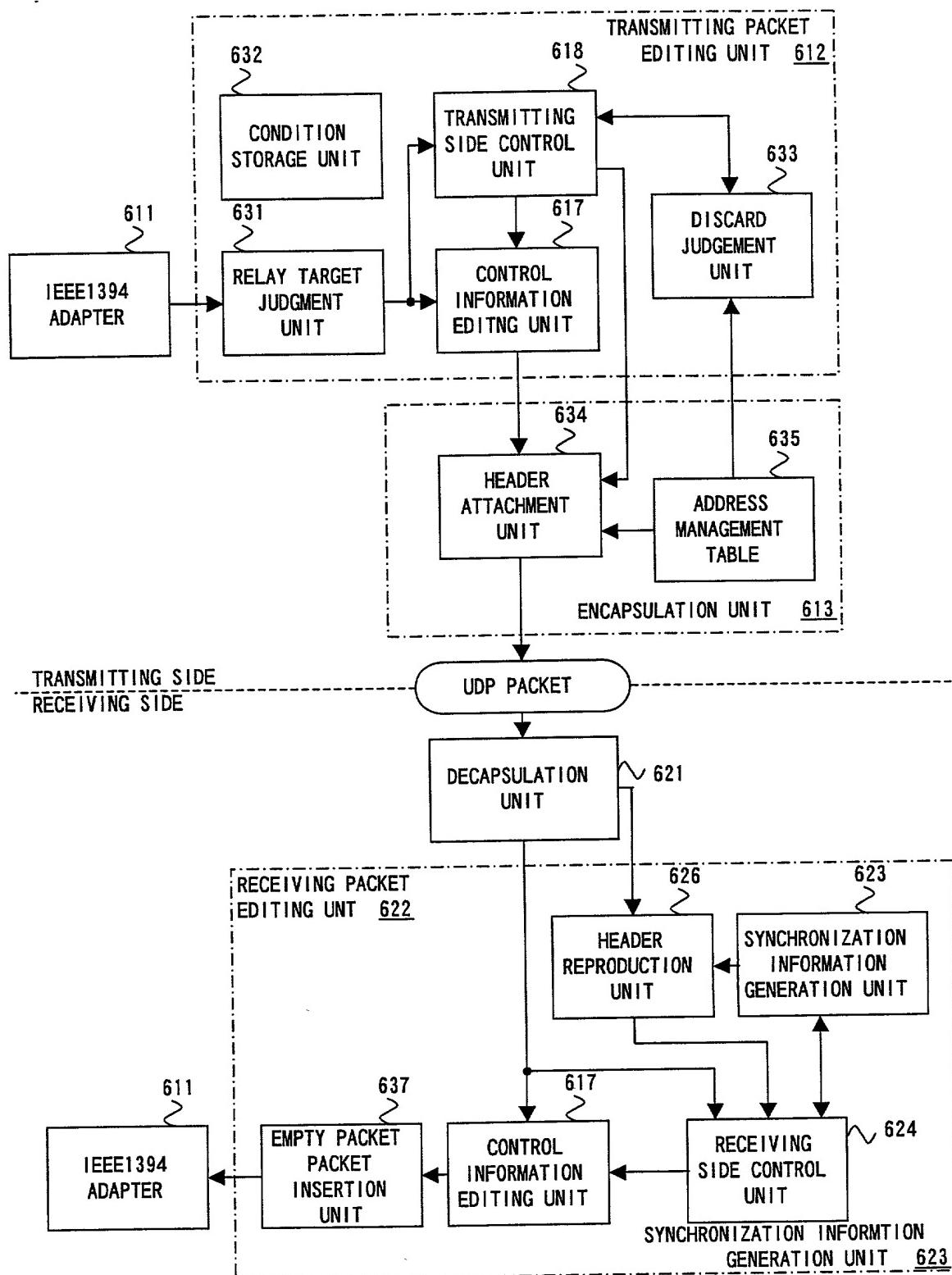


FIG. 35



F I G. 3 6

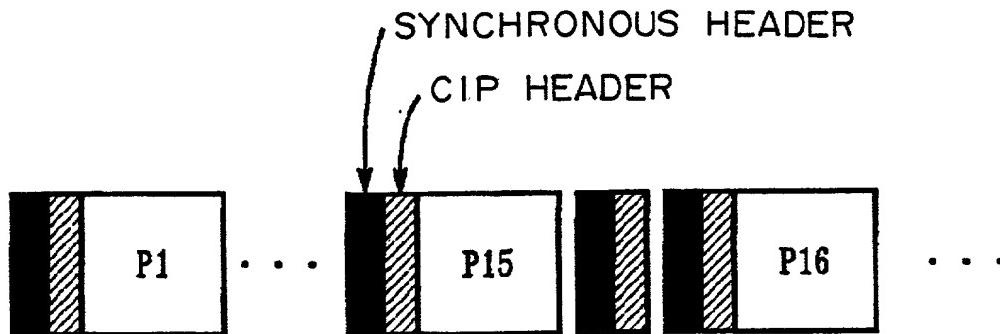


FIG. 37A

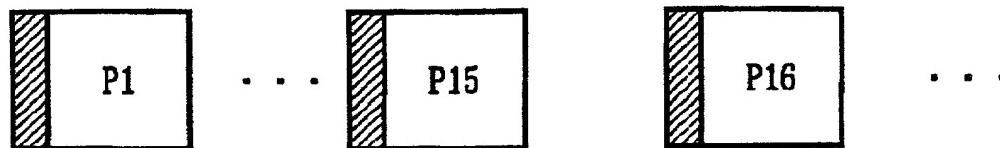


FIG. 37B

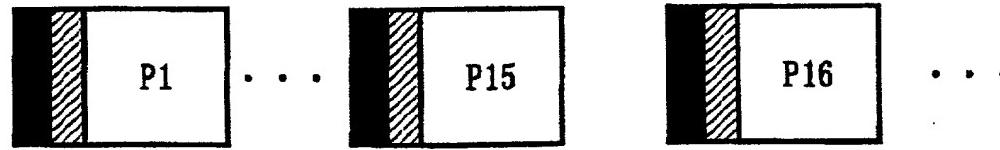


FIG. 37C

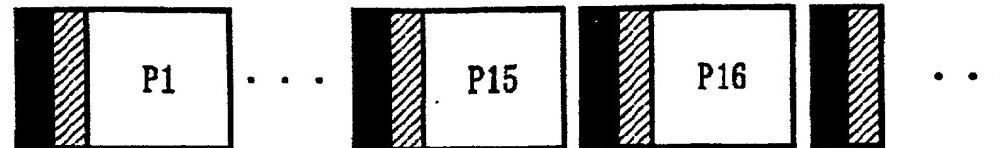
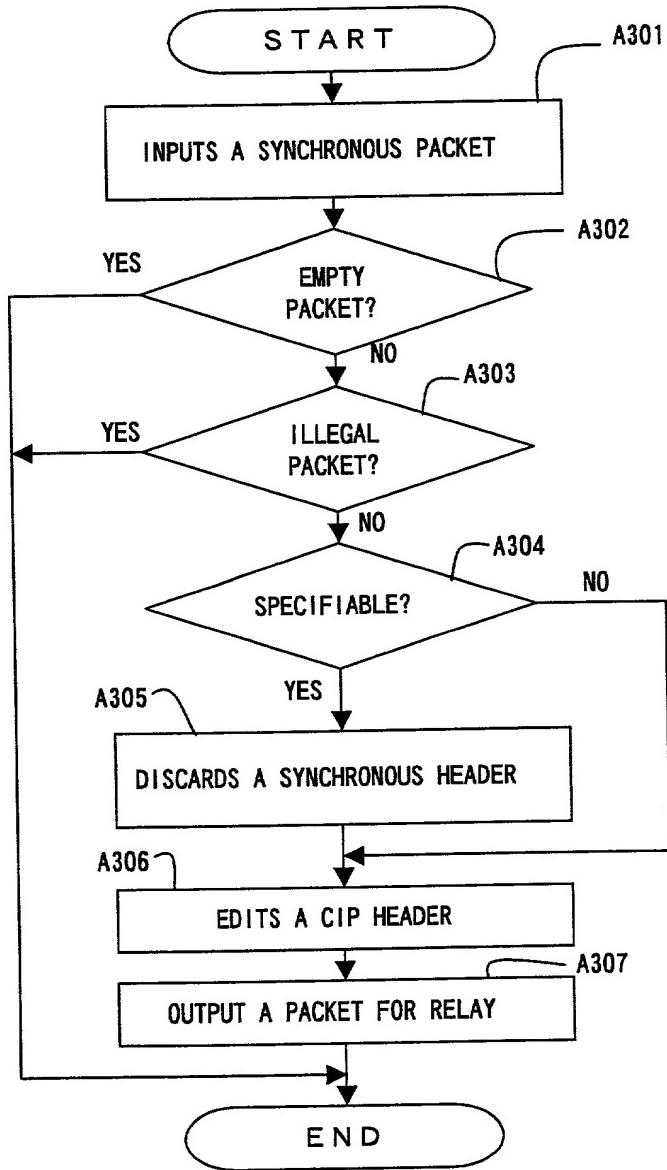
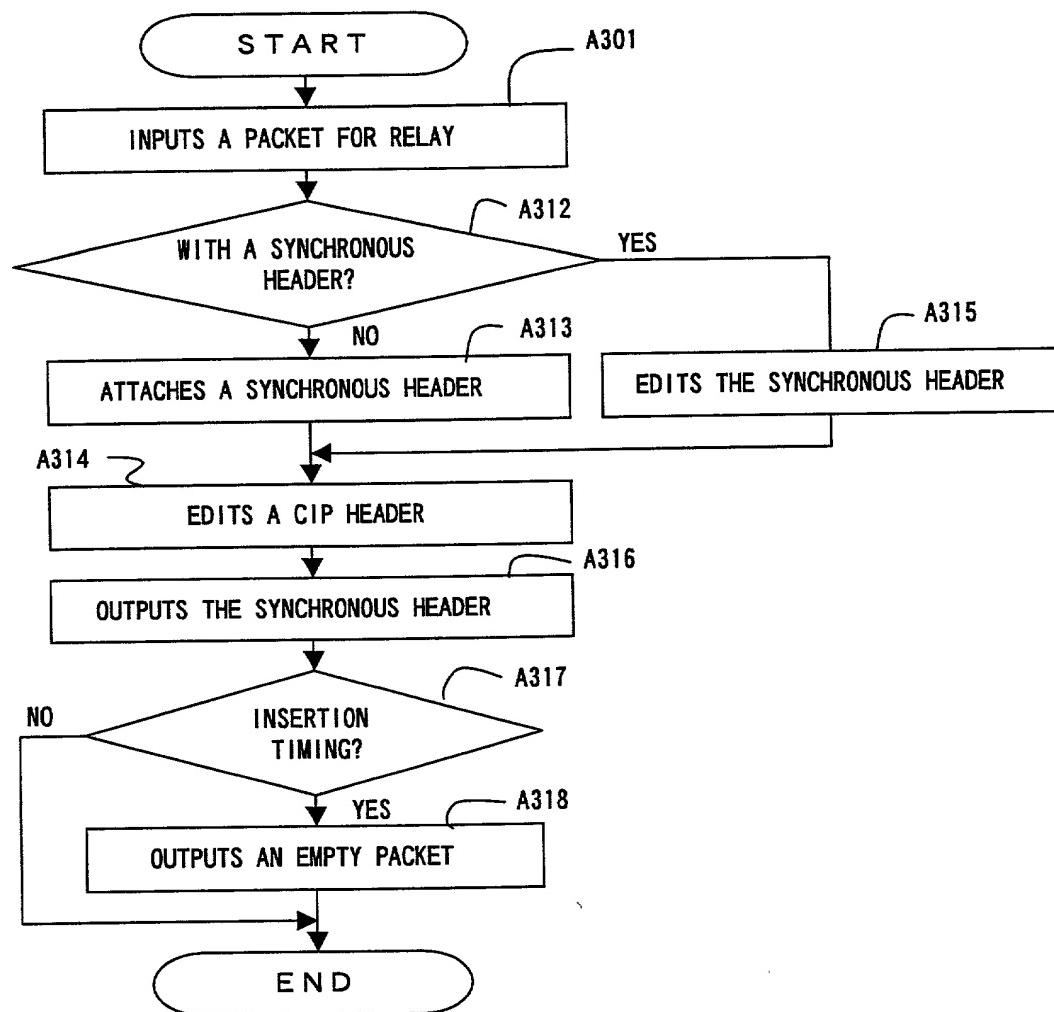


FIG. 37D



F I G. 3 8



F I G. 39

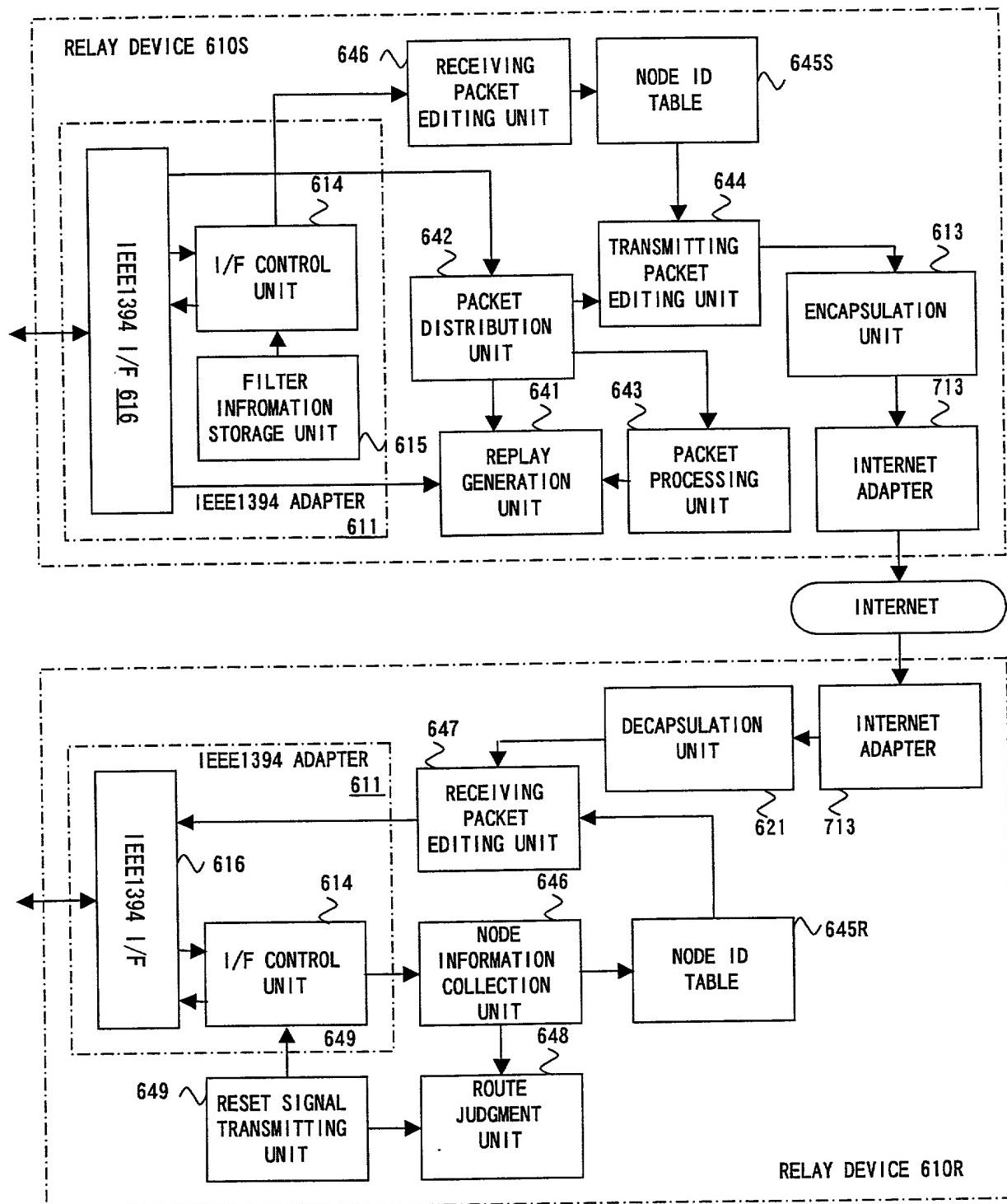


FIG. 40

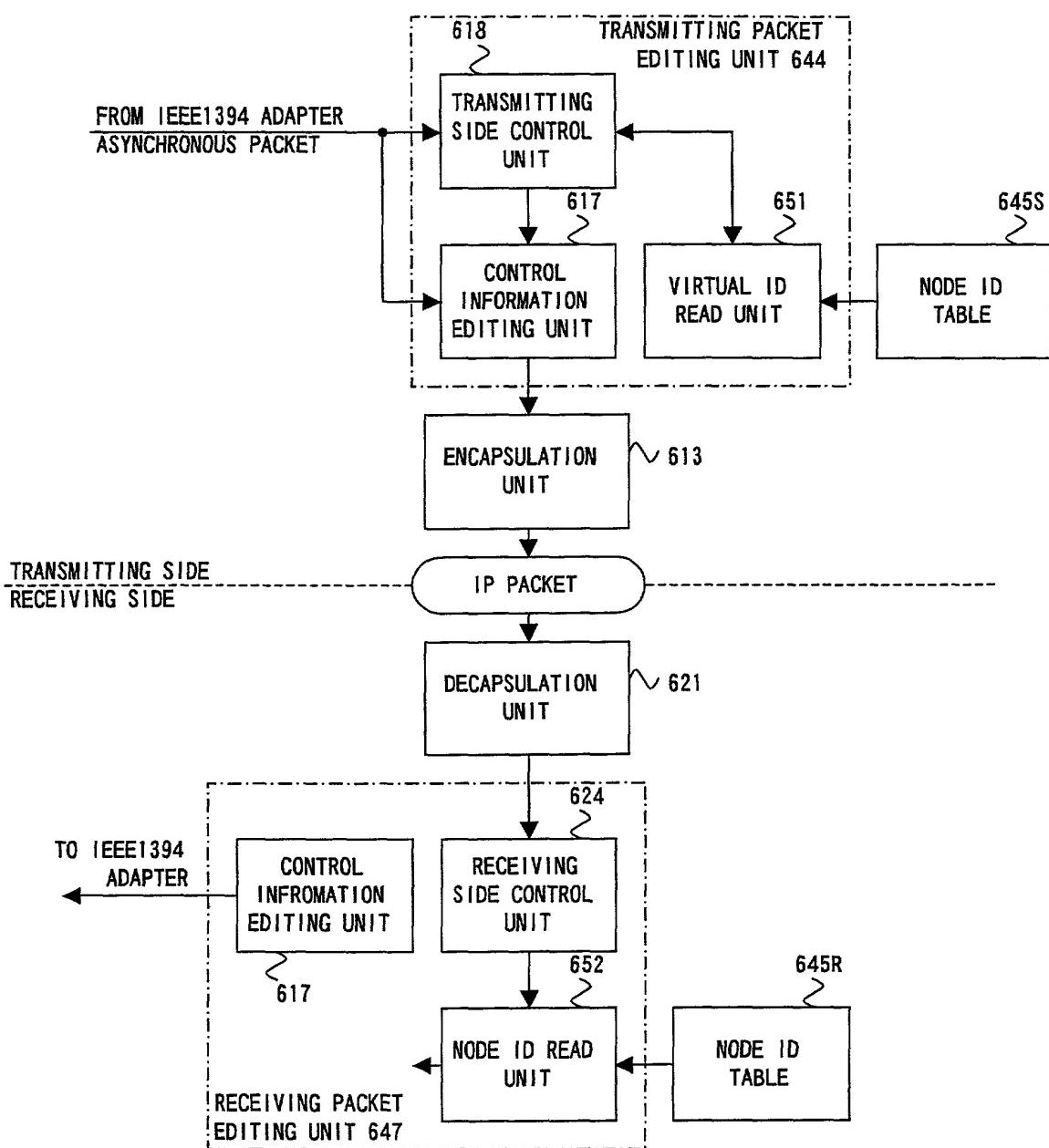


FIG. 41

FIG. 42A

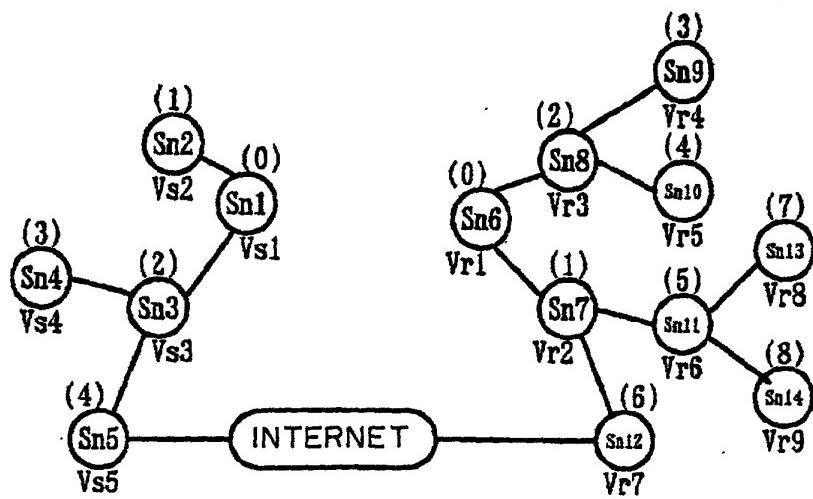


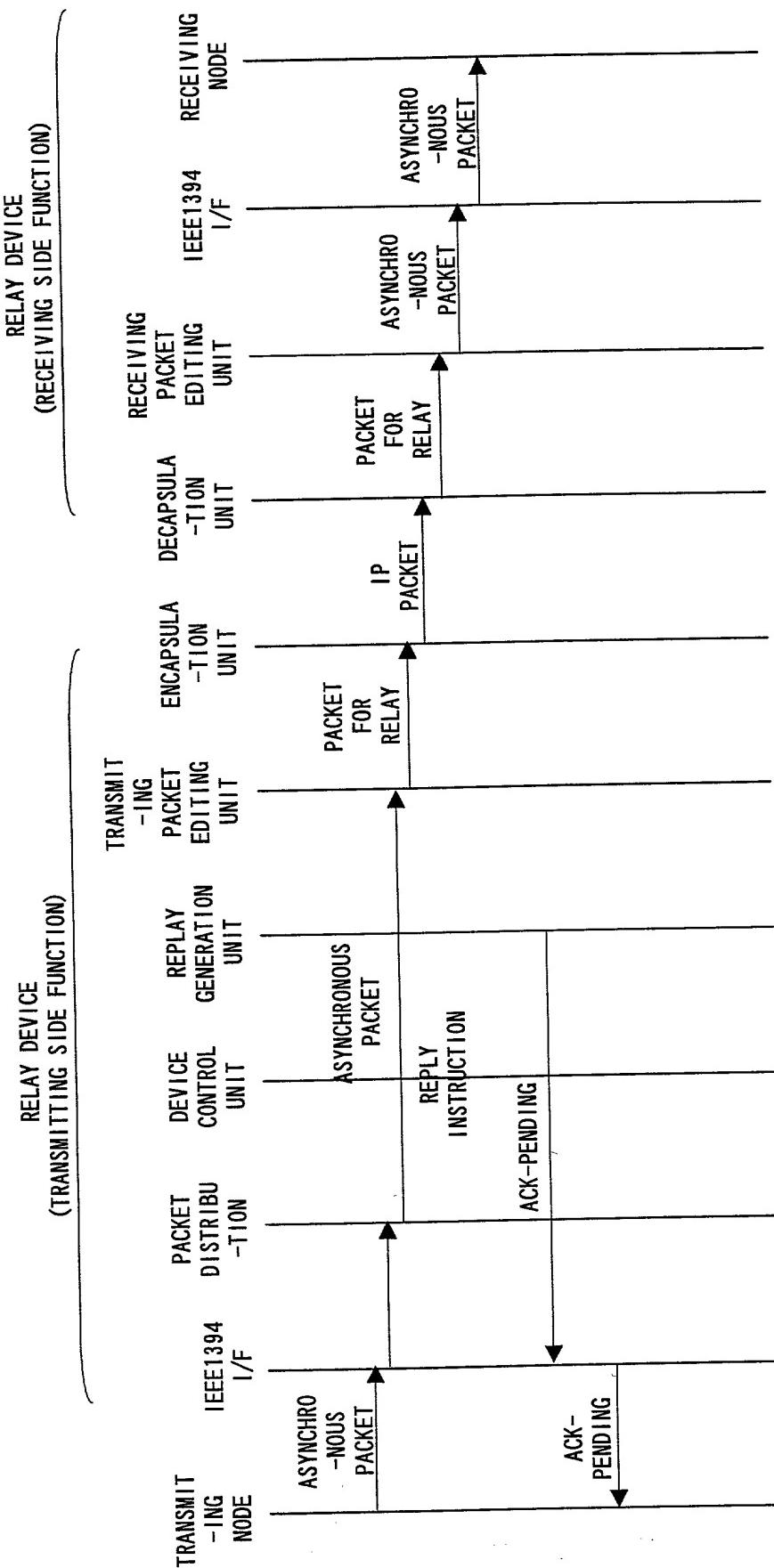
FIG. 42B

SERIAL No.	VIRTUAL ID	NODE ID
Sn 1	Vs 1	0
Sn 2	Vs 2	1
.	.	.
.	.	.
Sn 5	Vs 5	4

FIG. 42C

SERIAL No.	VIRTUAL ID	NODE ID
Sn 6	Vr 1	0
Sn 7	Vr 2	1
.	.	.
.	.	.
Sn 14	Vr 9	8

F I G. 4 3



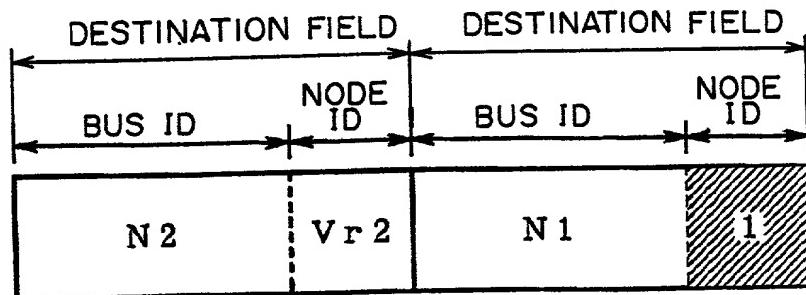


FIG. 44A

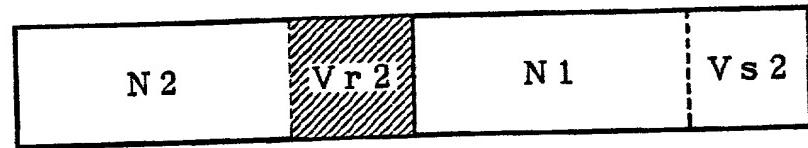


FIG. 44B

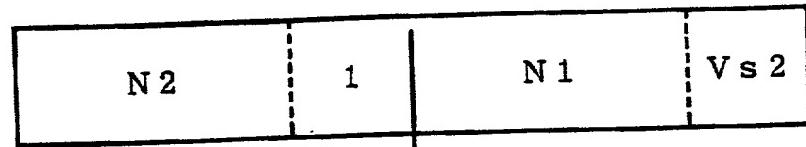
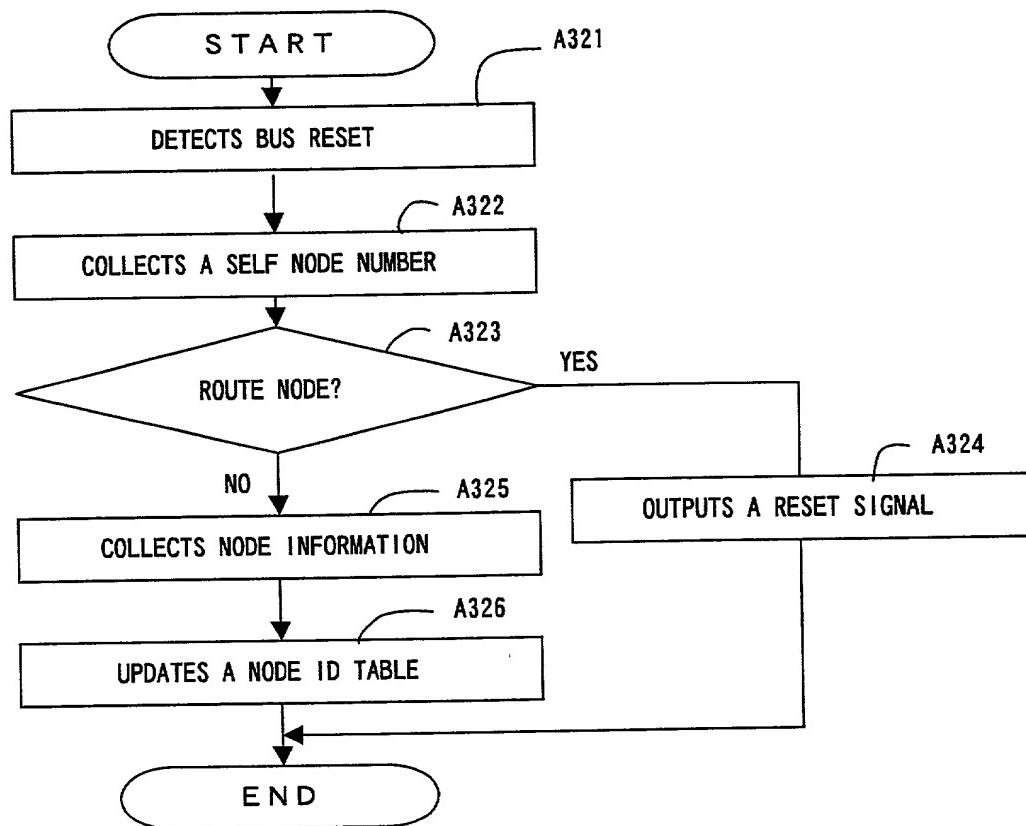
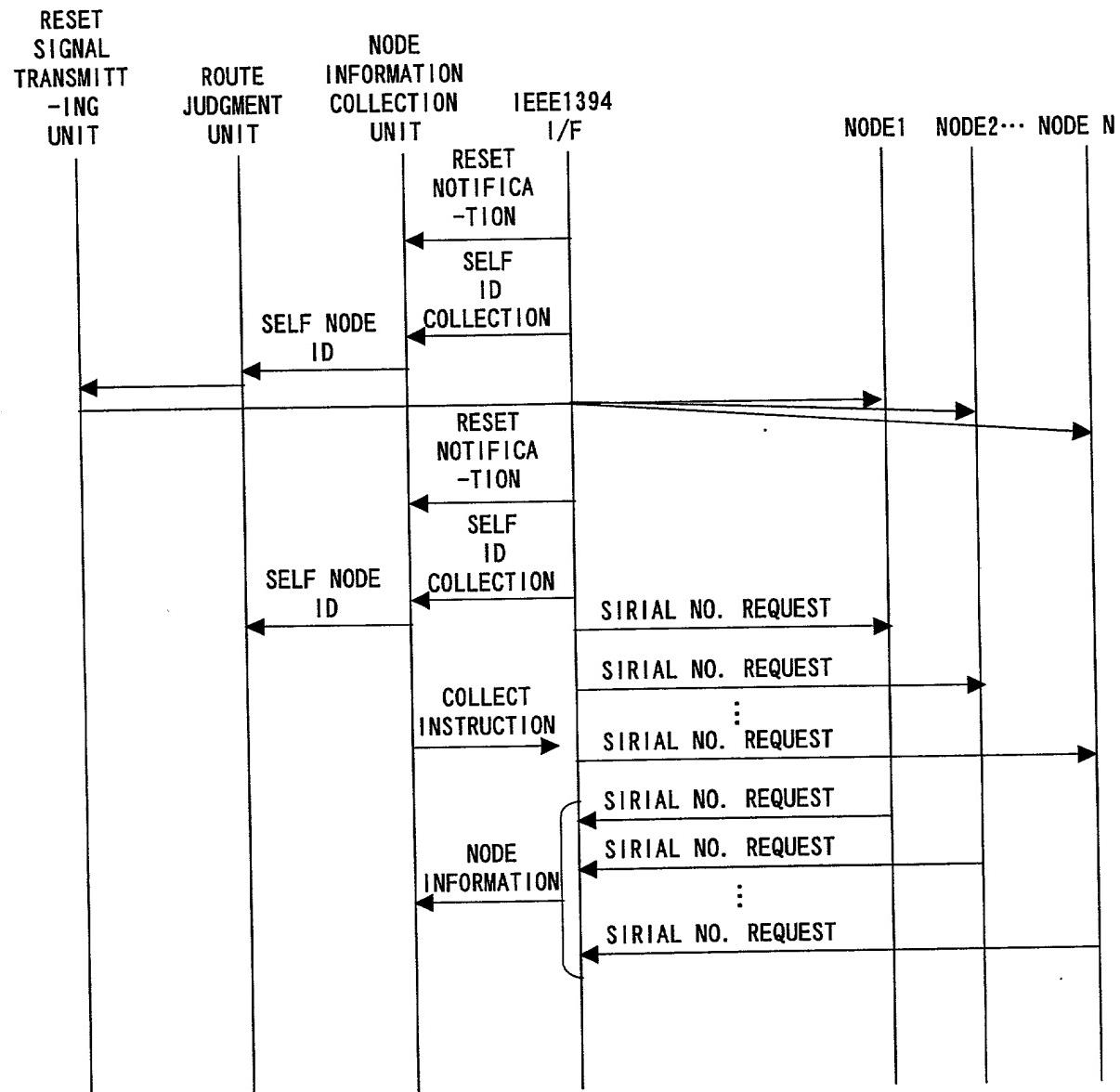


FIG. 44C

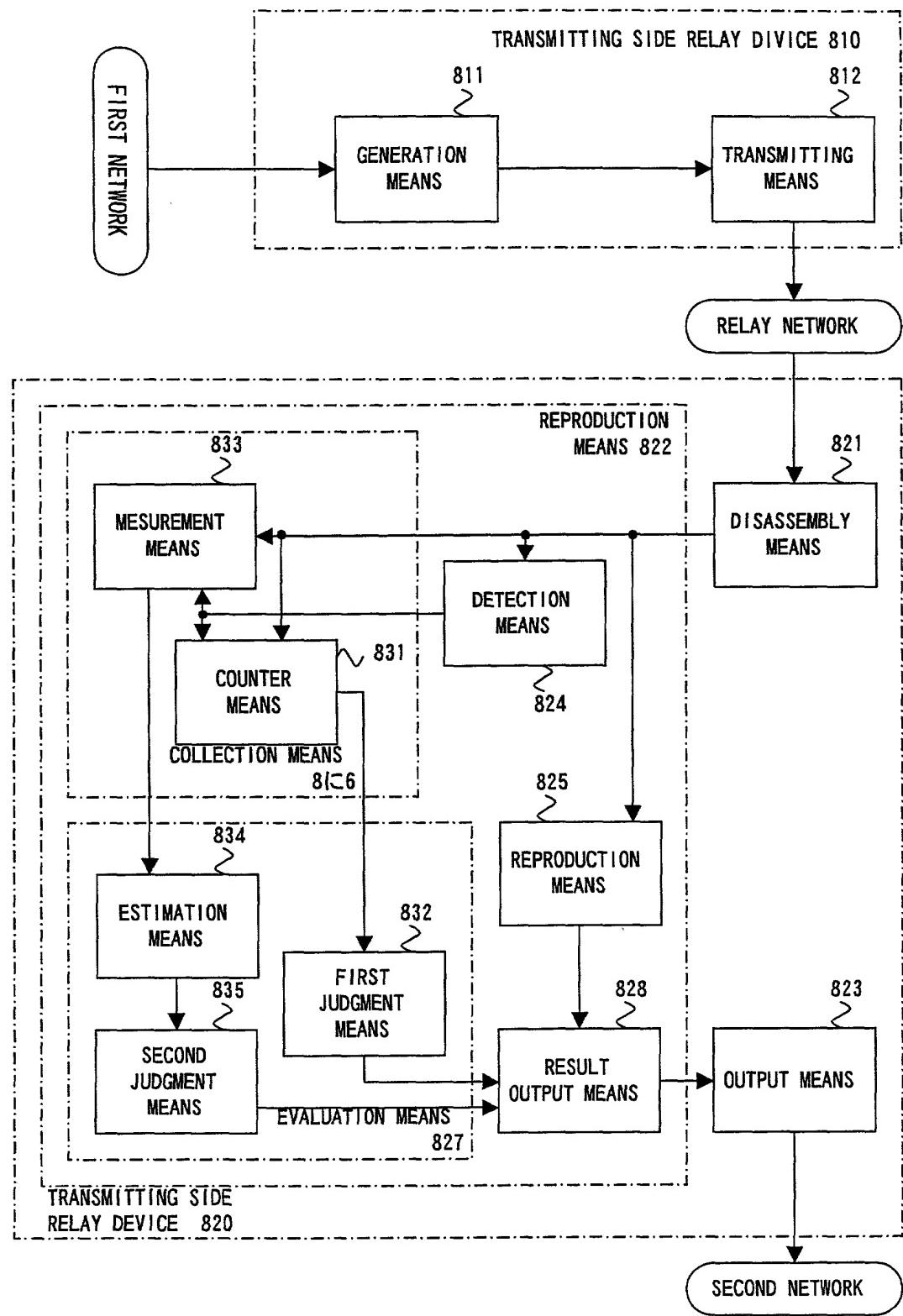


F I G. 45

RELAY DEVICE



F I G. 4 6



F I G . 4 7

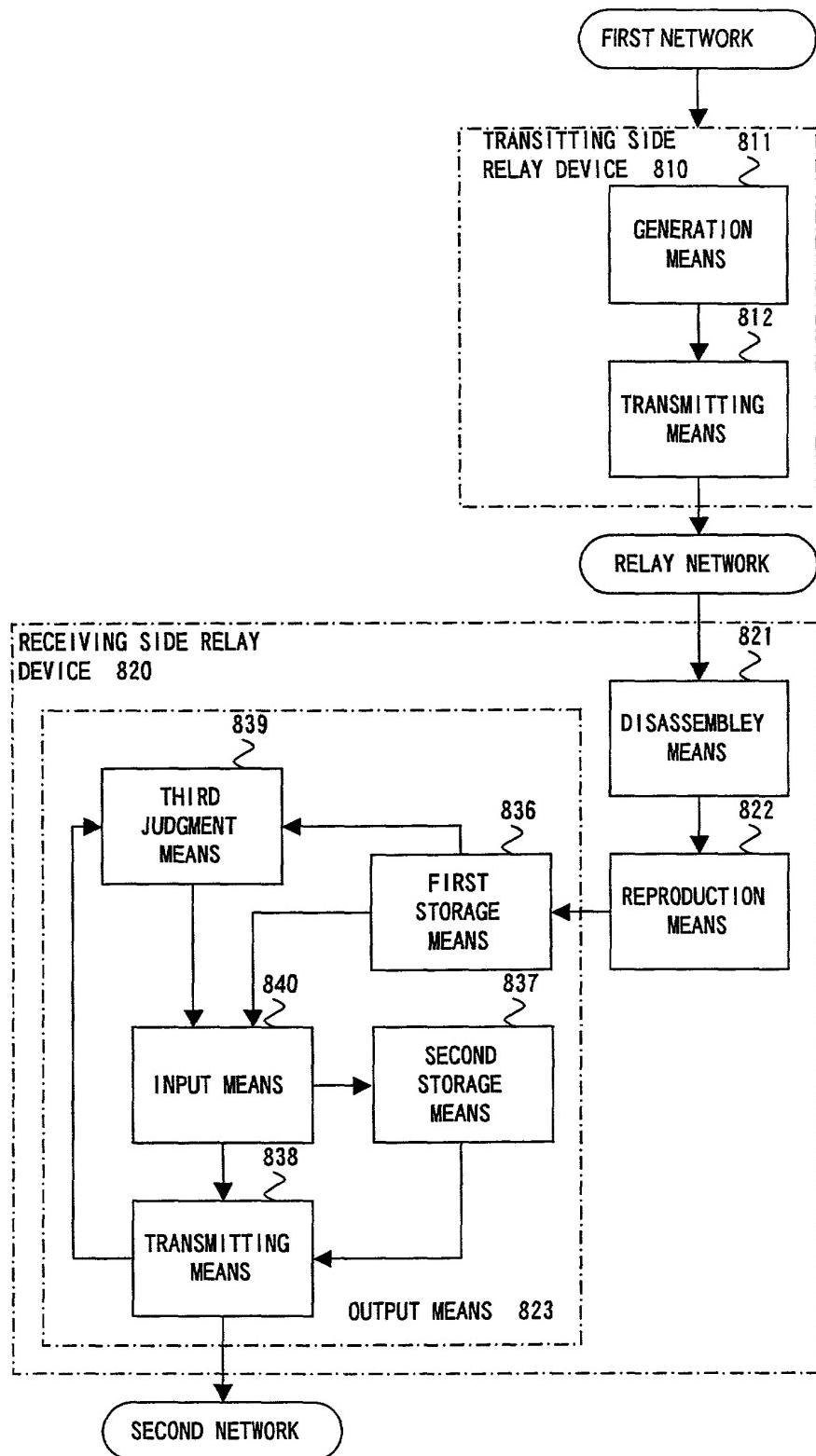
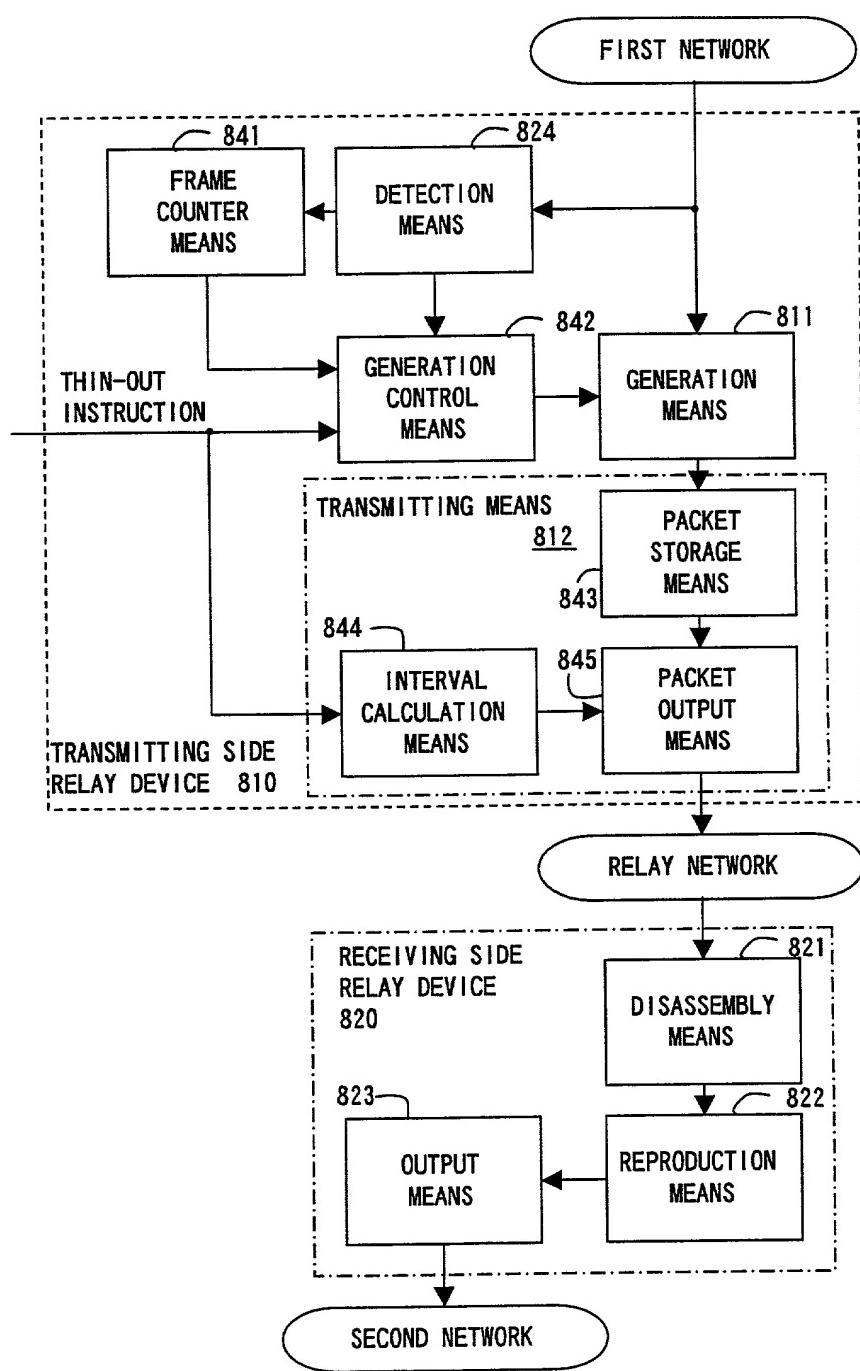
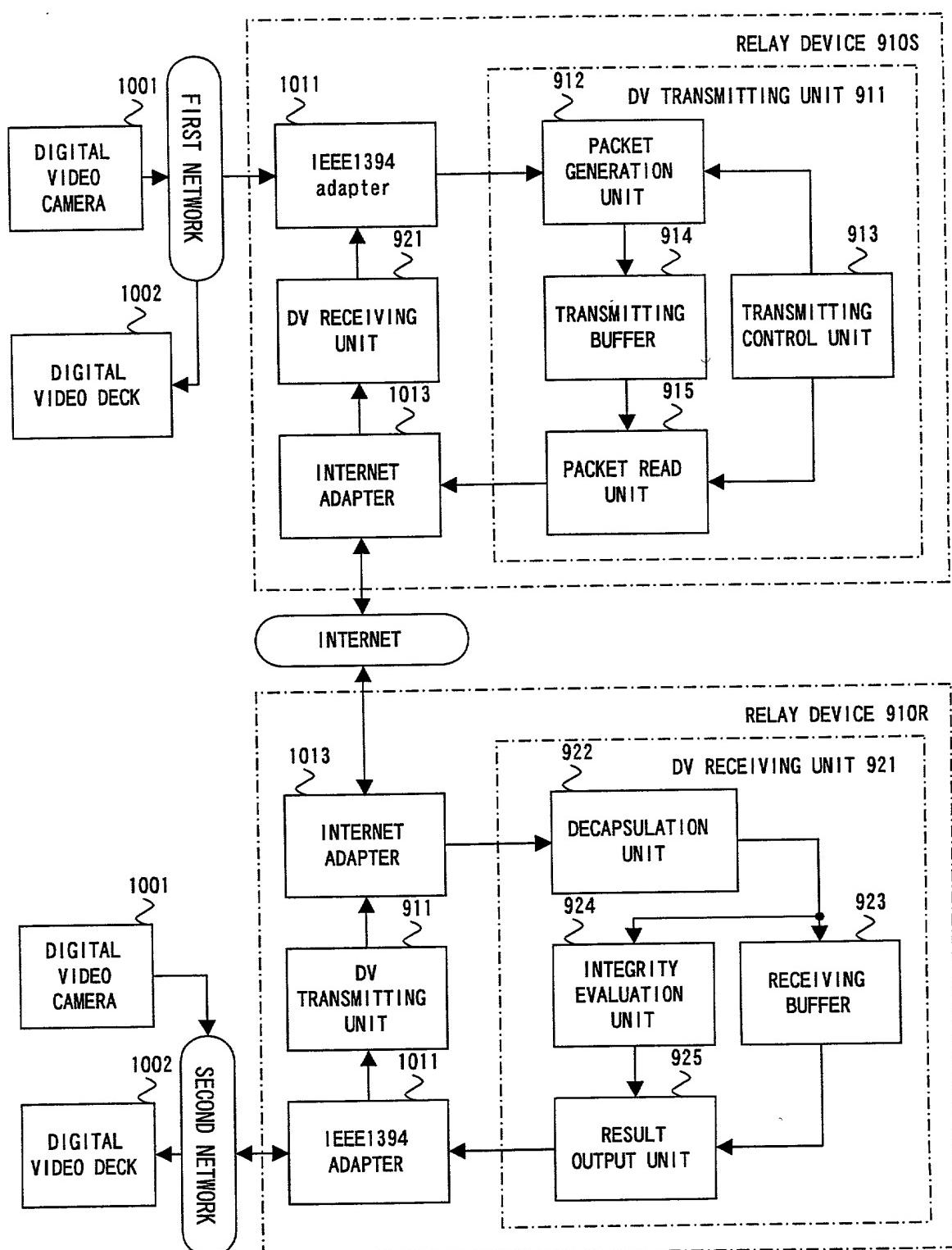


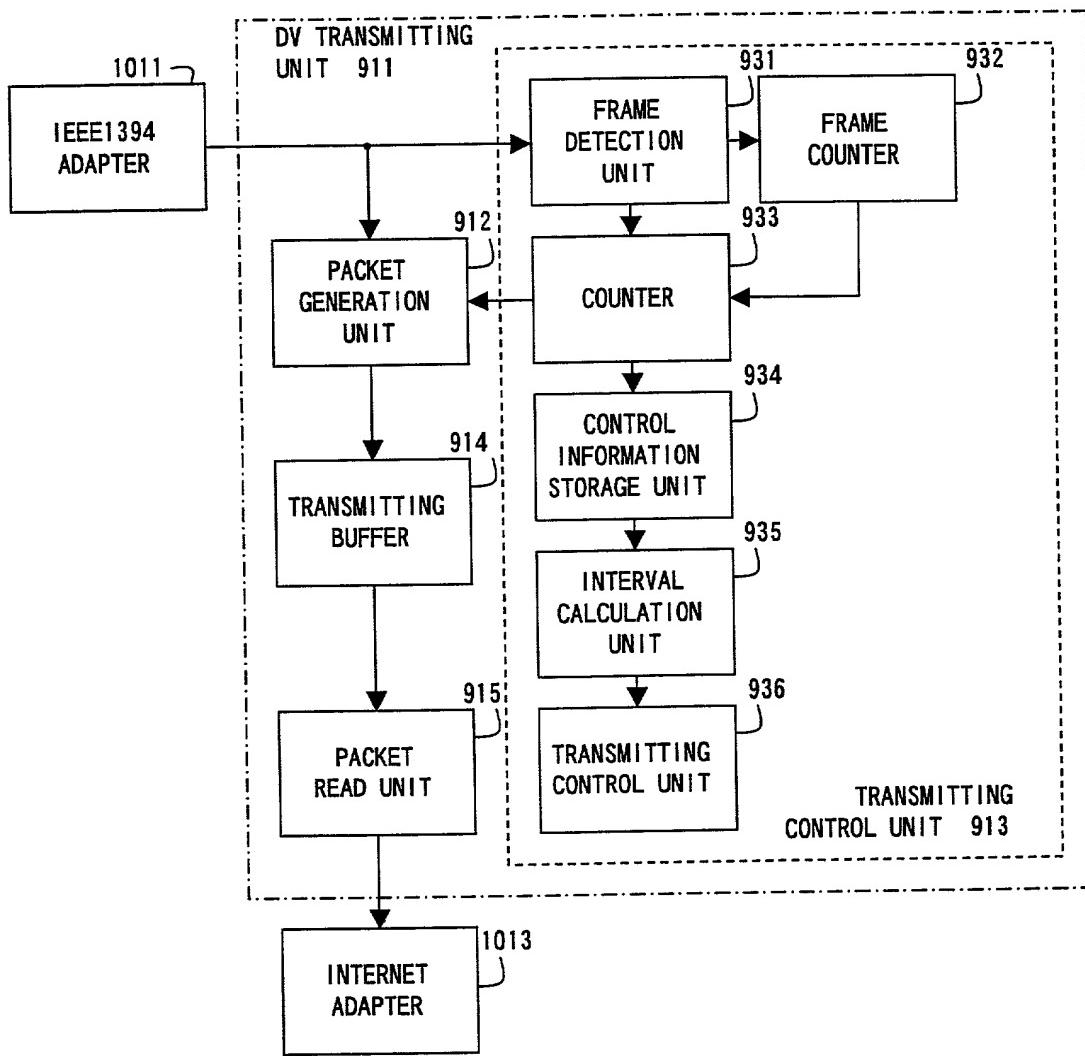
FIG. 48



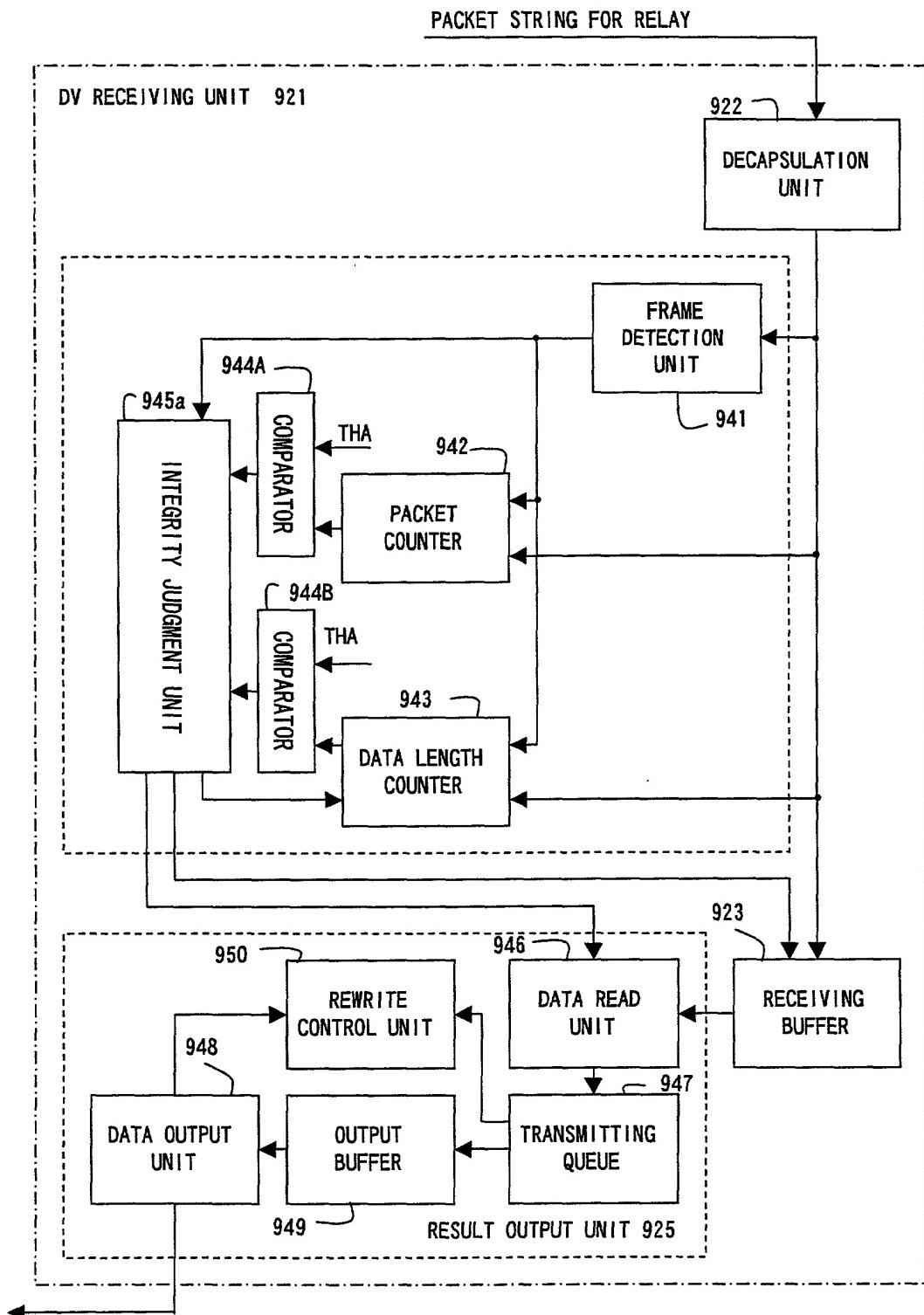
F I G. 4 9



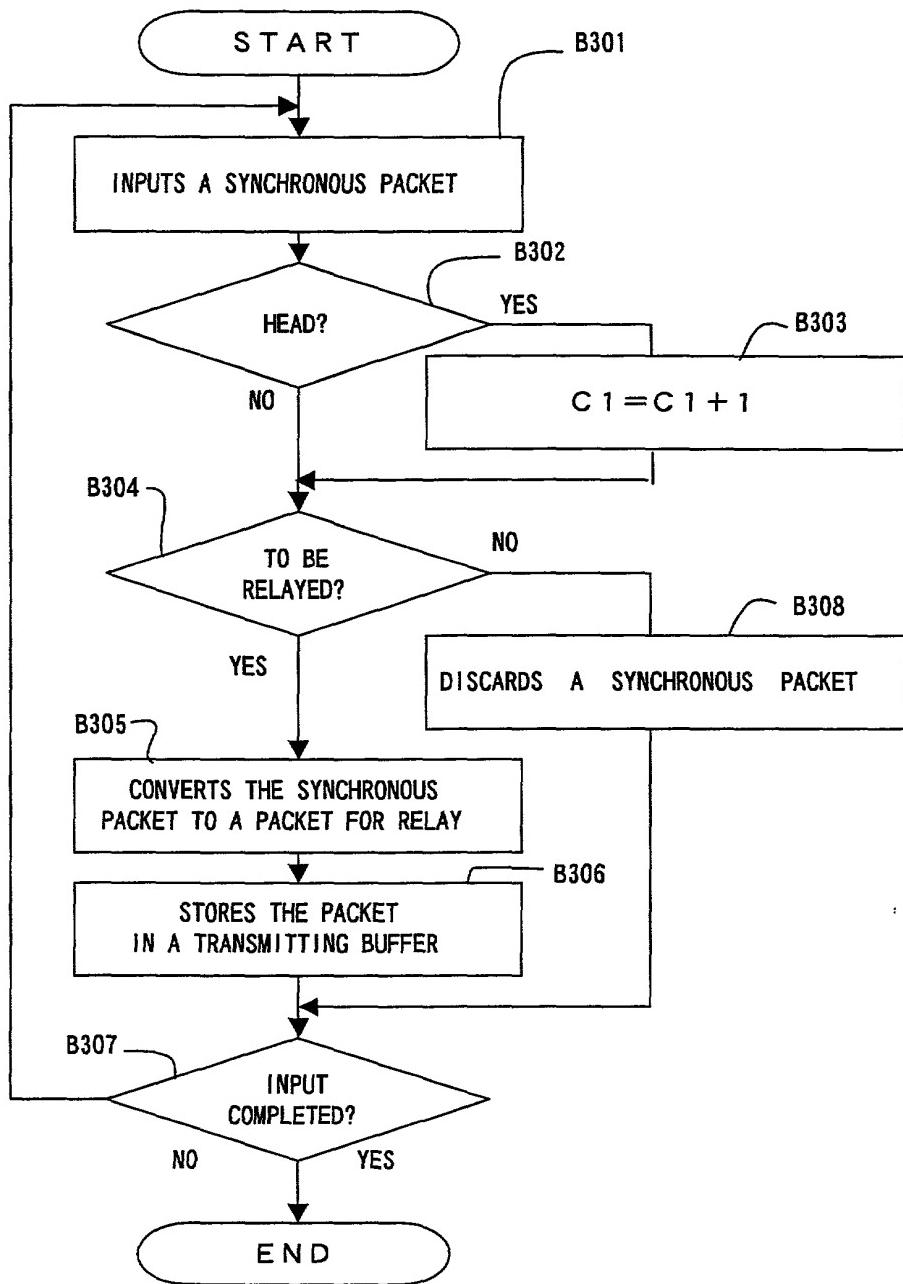
F I G. 5 0



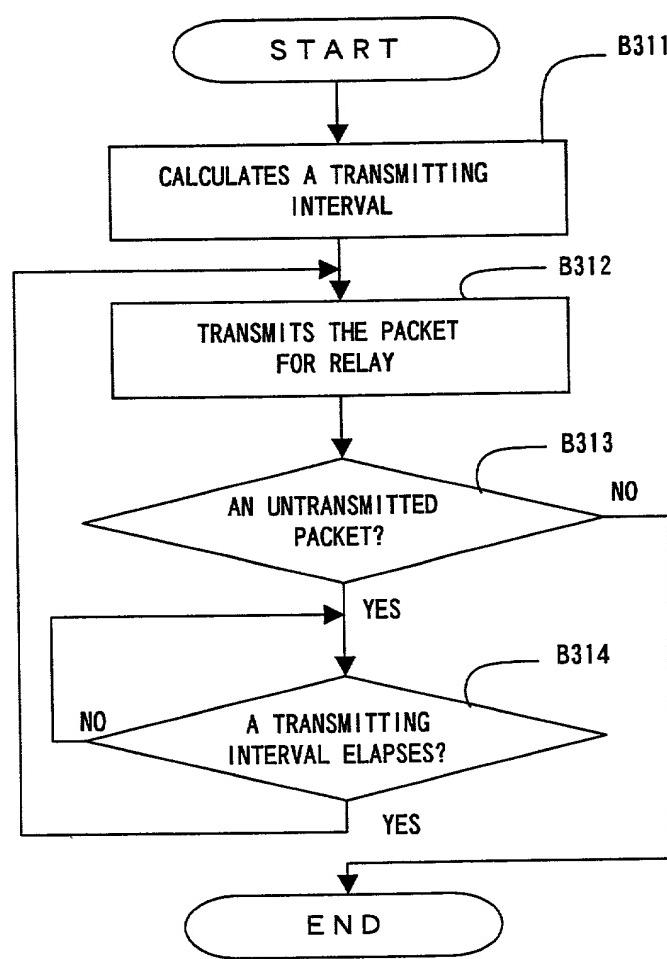
F I G. 5 1



F I G. 5 2



F I G. 53A



F I G. 53B

FIG. 54A

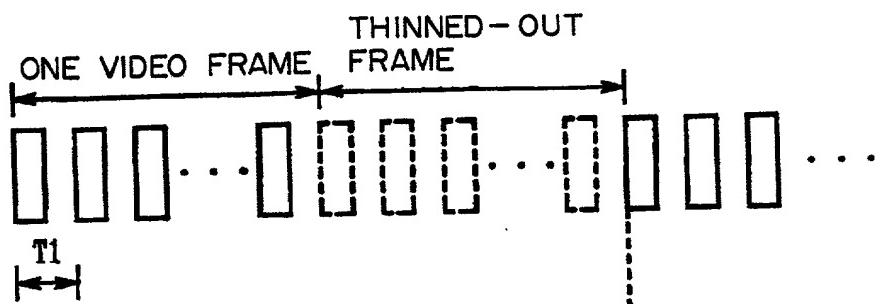
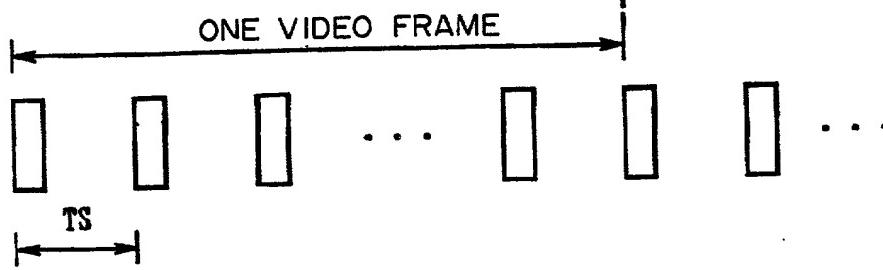


FIG. 54B



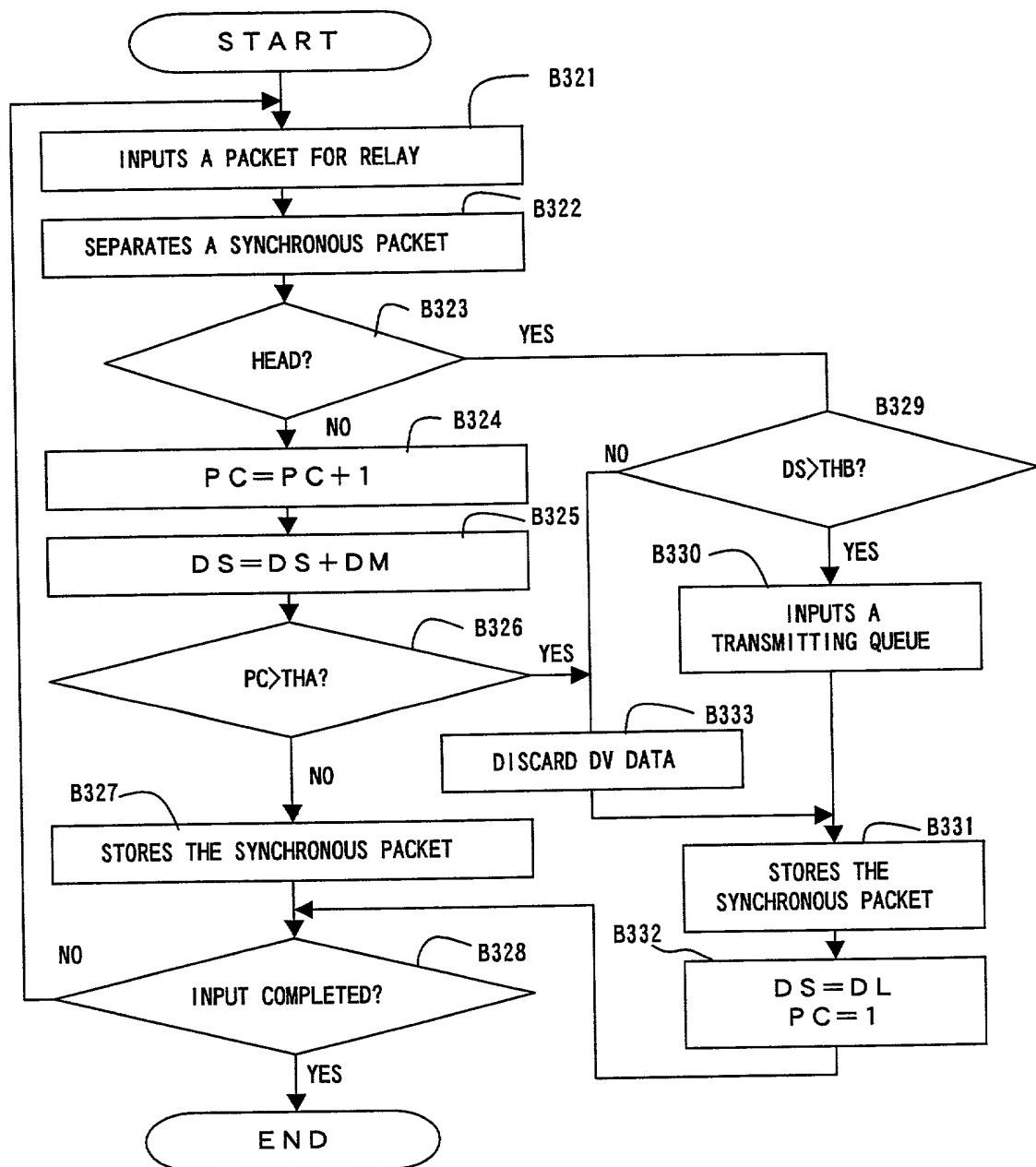
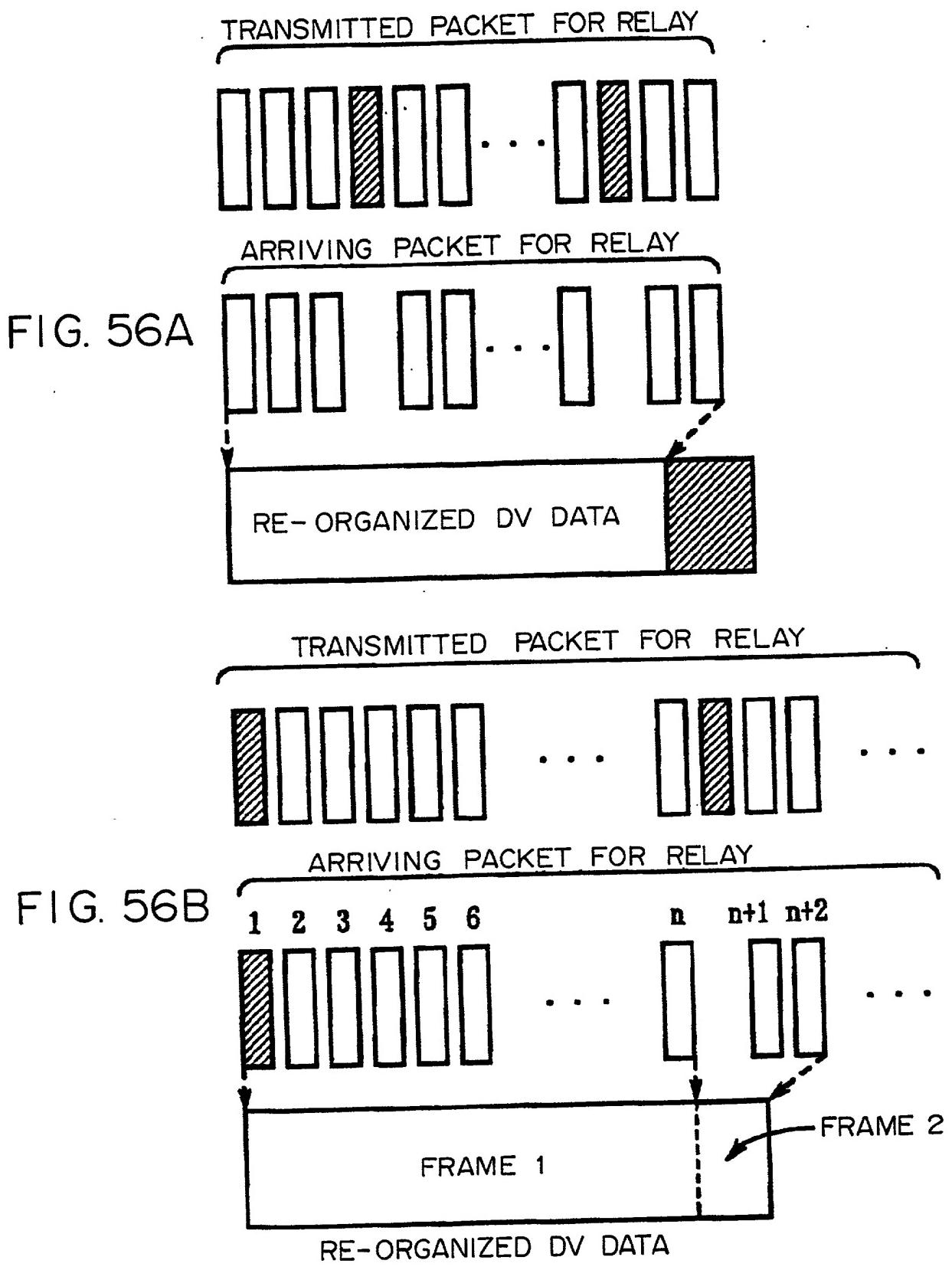


FIG. 55



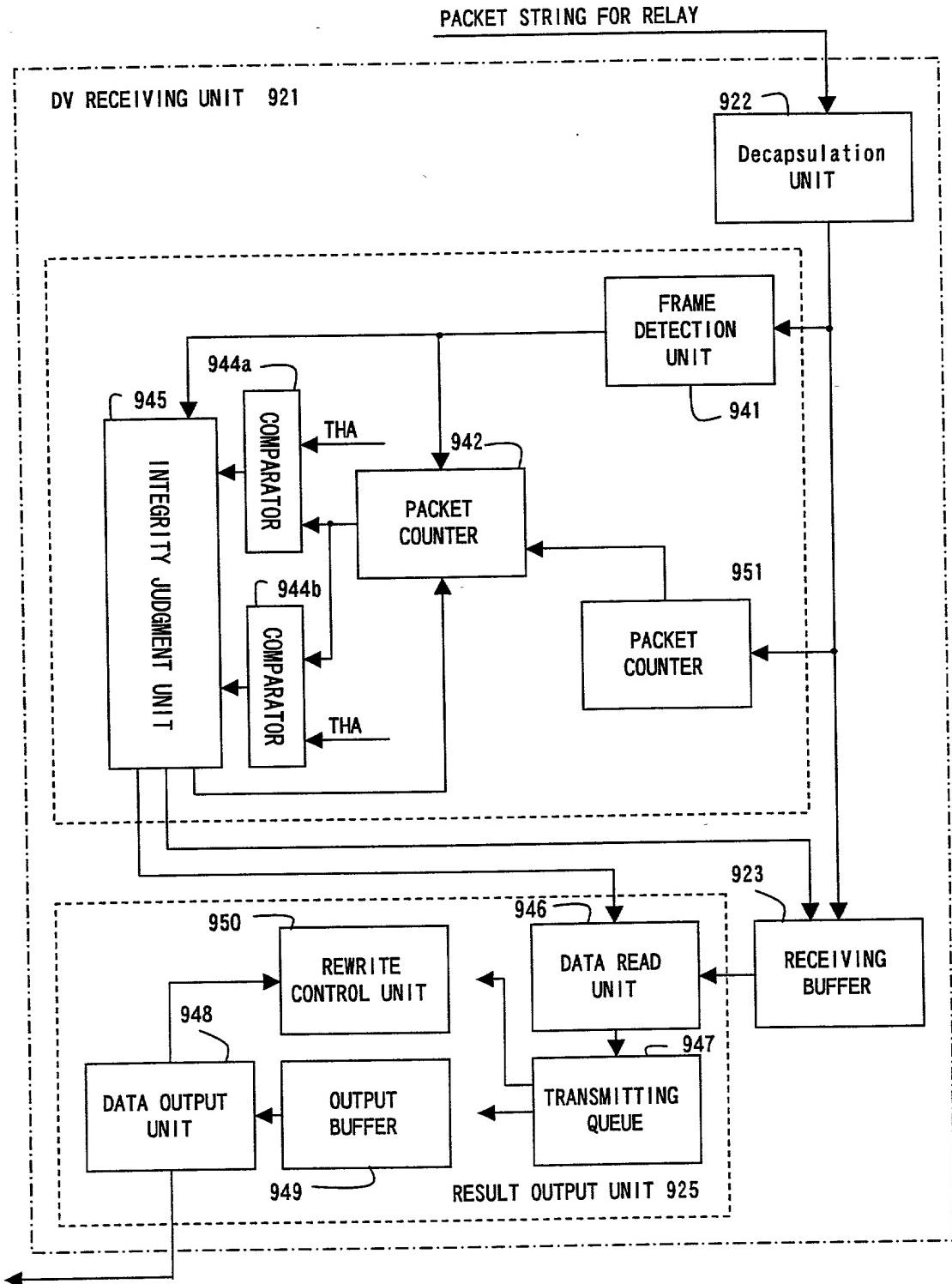
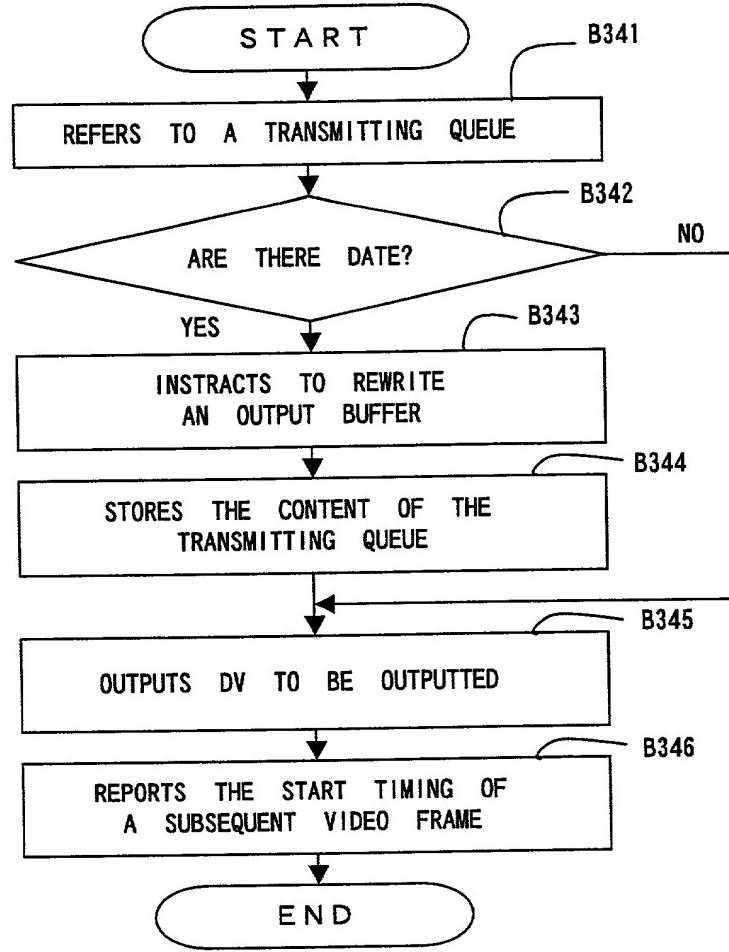


FIG. 57



F I G. 5 8

FIG. 59A

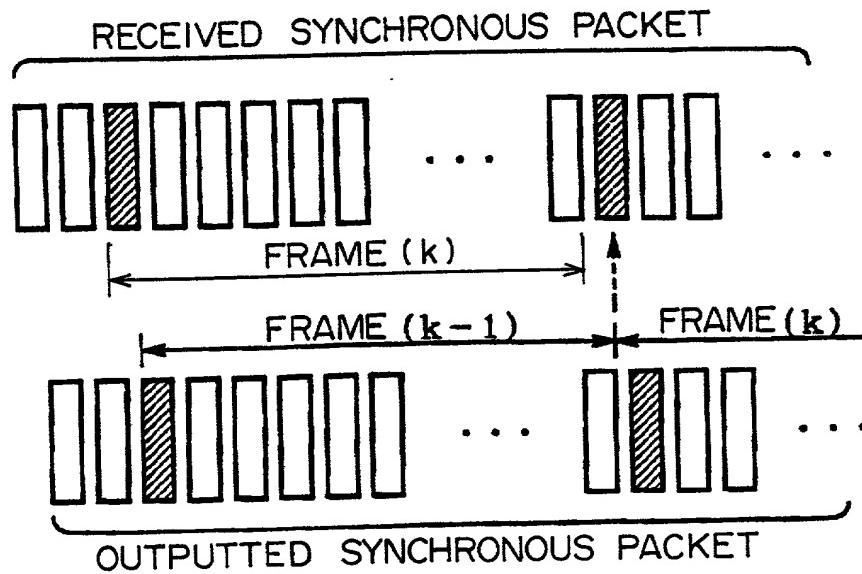
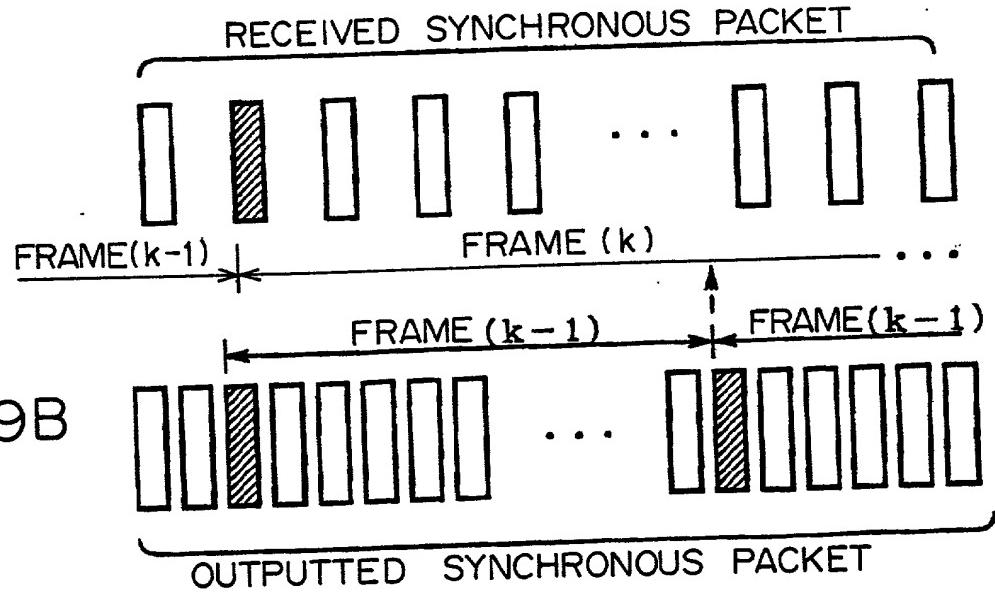
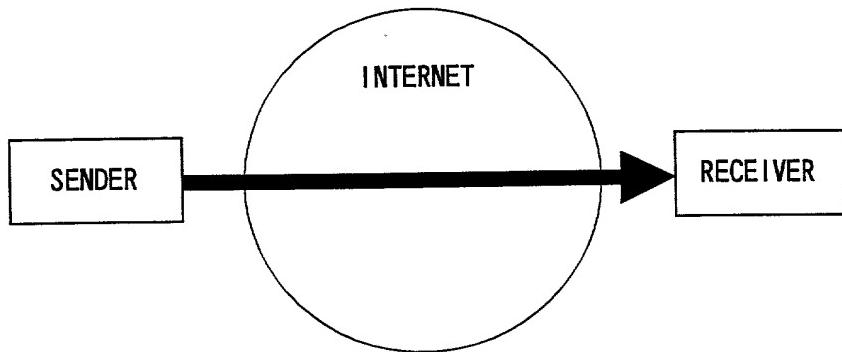
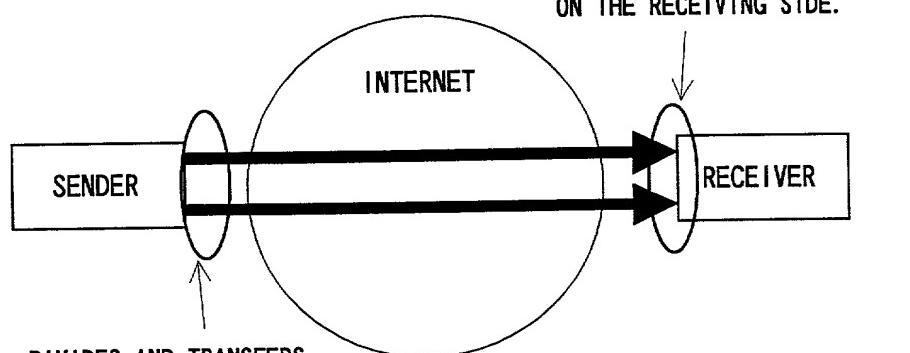


FIG. 59B





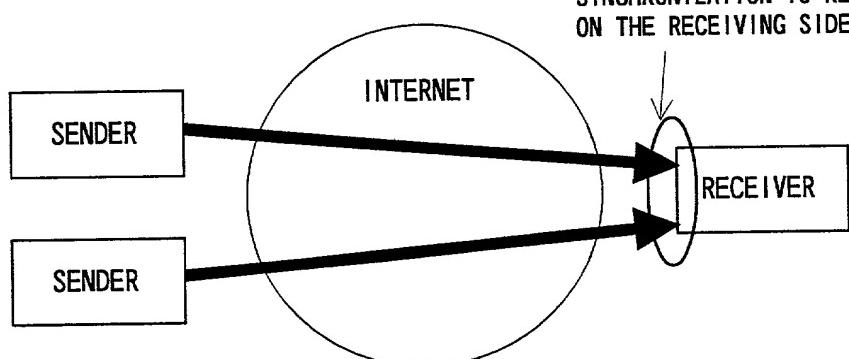
F I G . 6 0 A



DIVIDES AND TRANSFERS
IN ANOTHER ROUTE.

SYNCHRONIZATION IS REQUIRED
ON THE RECEIVING SIDE.

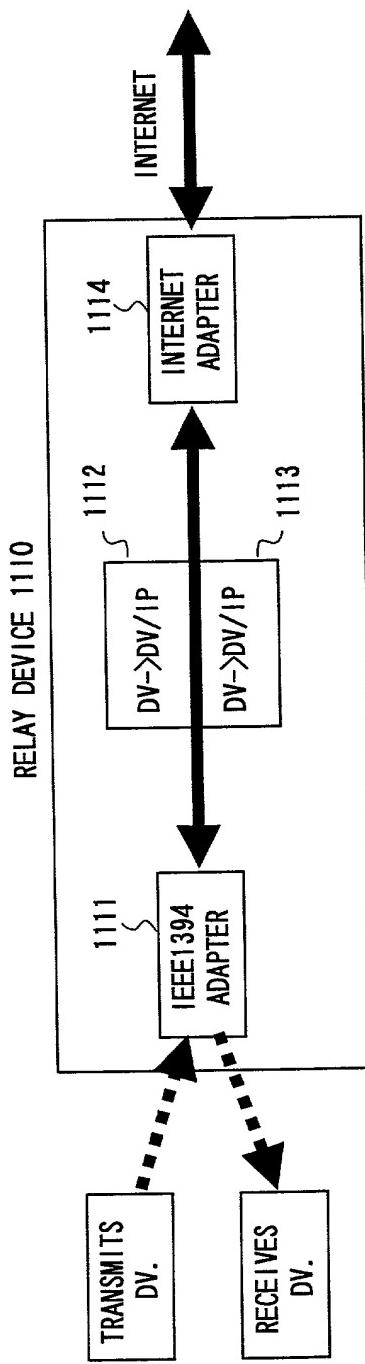
F I G . 6 0 B

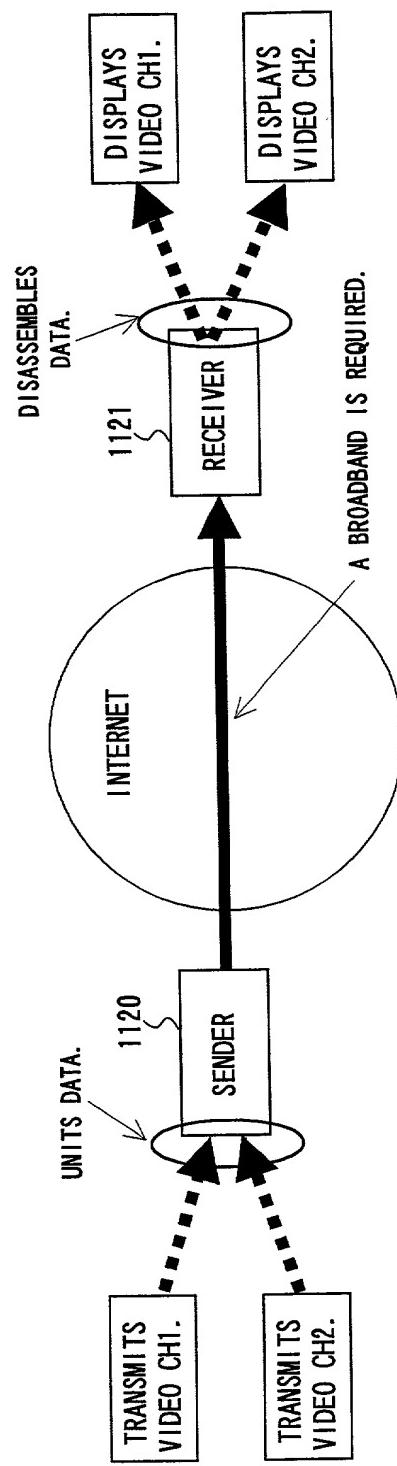


SYNCHRONIZATION IS REQUIRED
ON THE RECEIVING SIDE.

F I G . 6 0 C

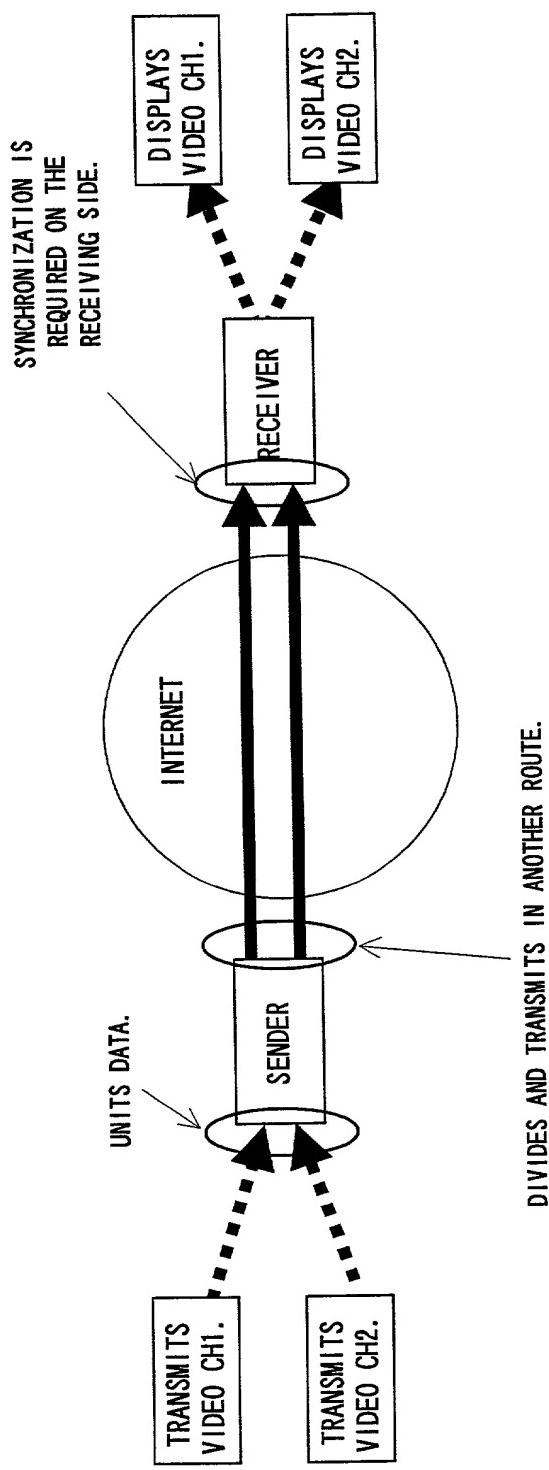
F I G. 6 1



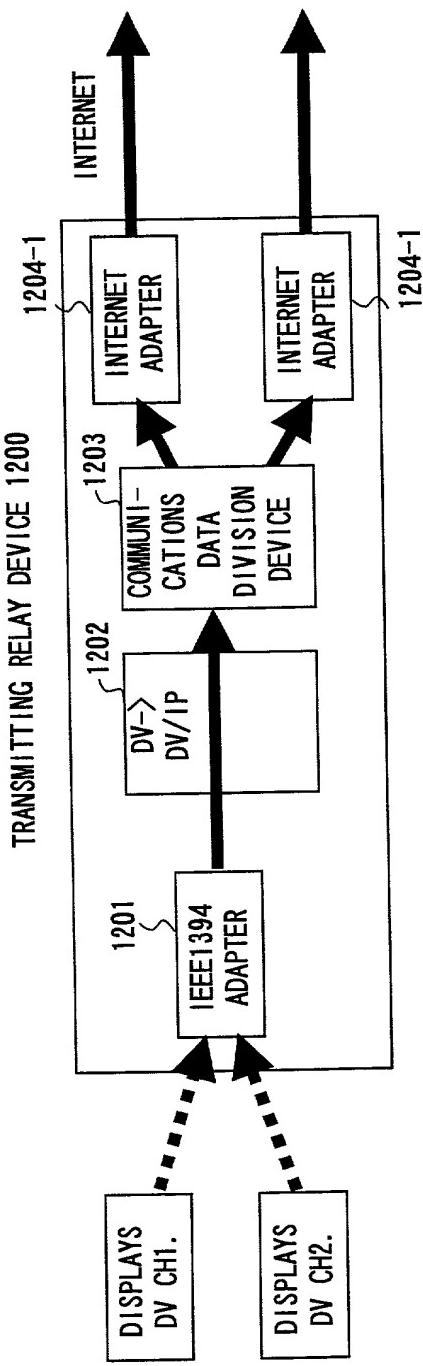


F I G. 6 2

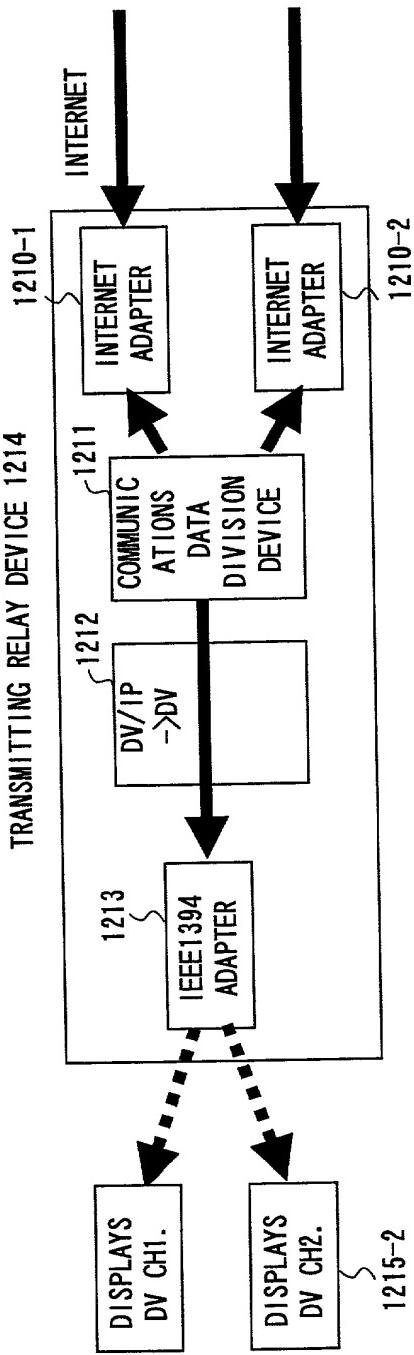
F I G. 6 3



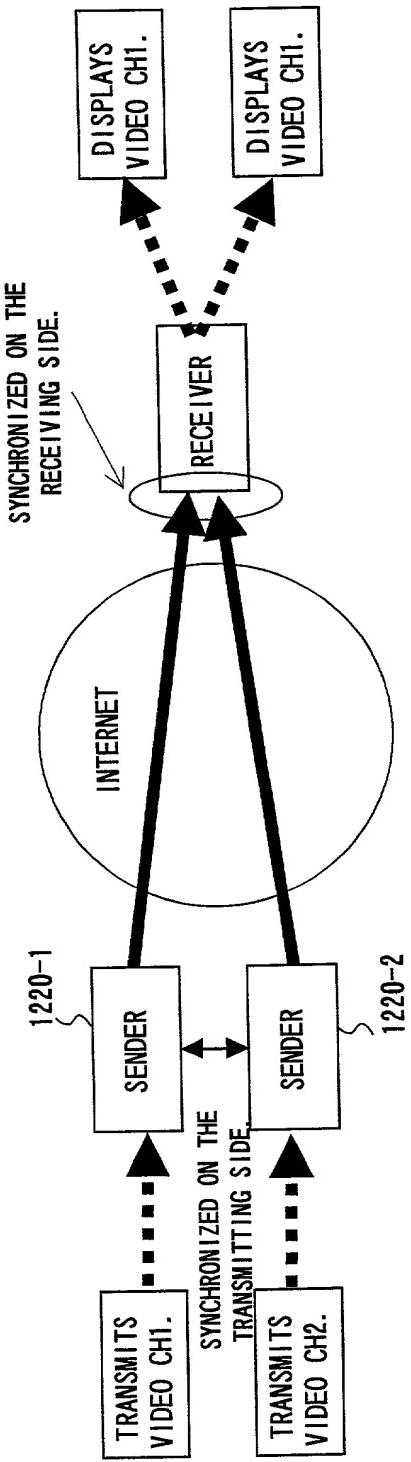
F I G. 6 4



F I G. 6 5



F I G. 6 6



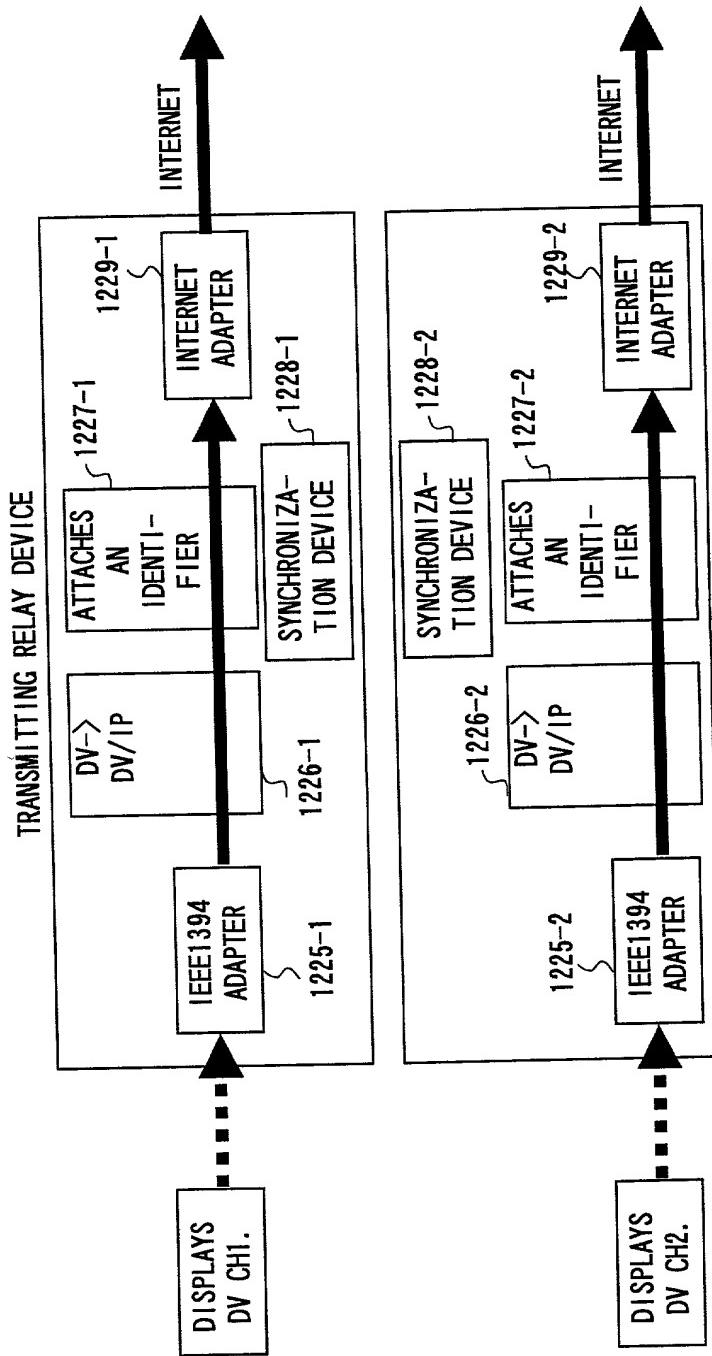
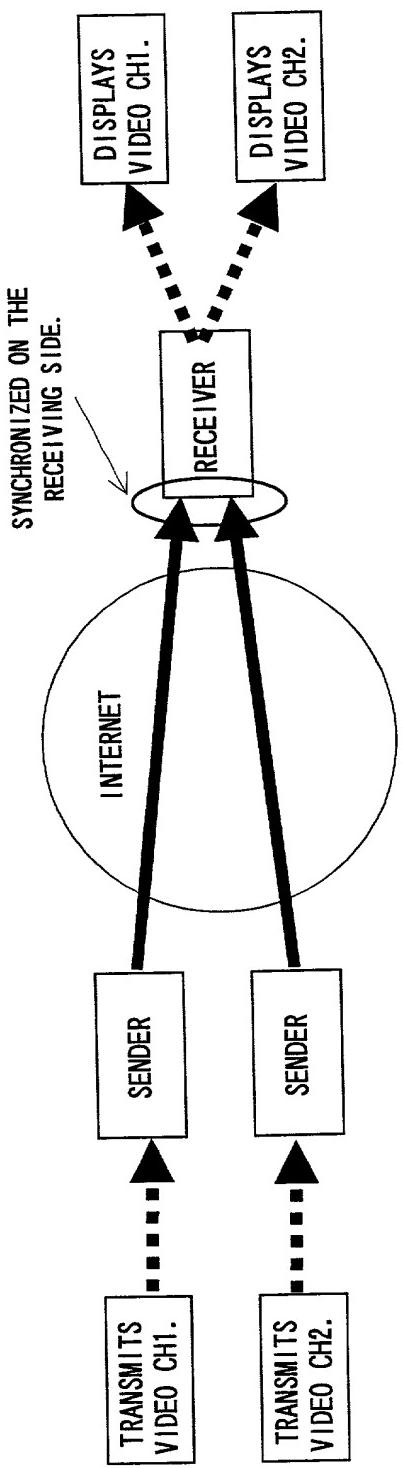
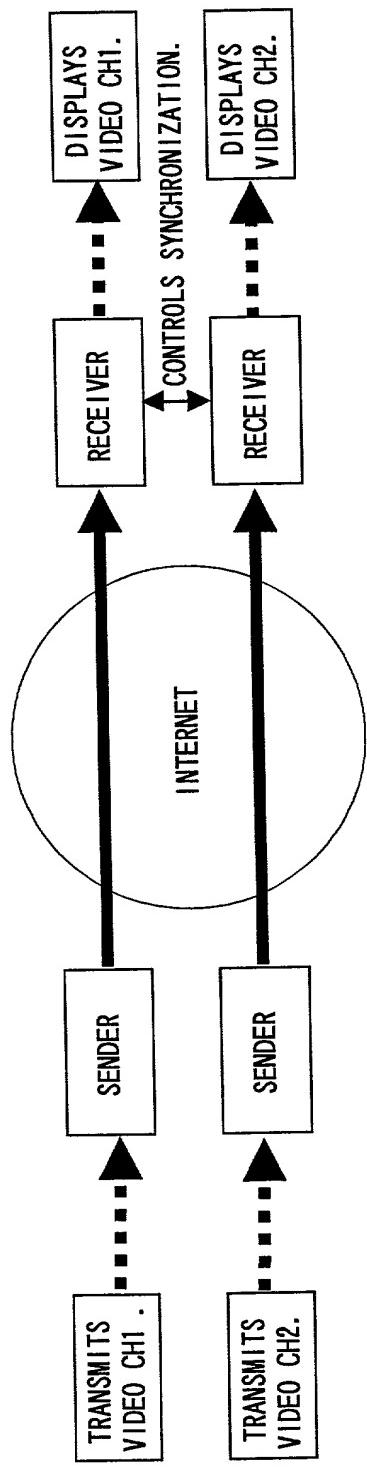


FIG. 67

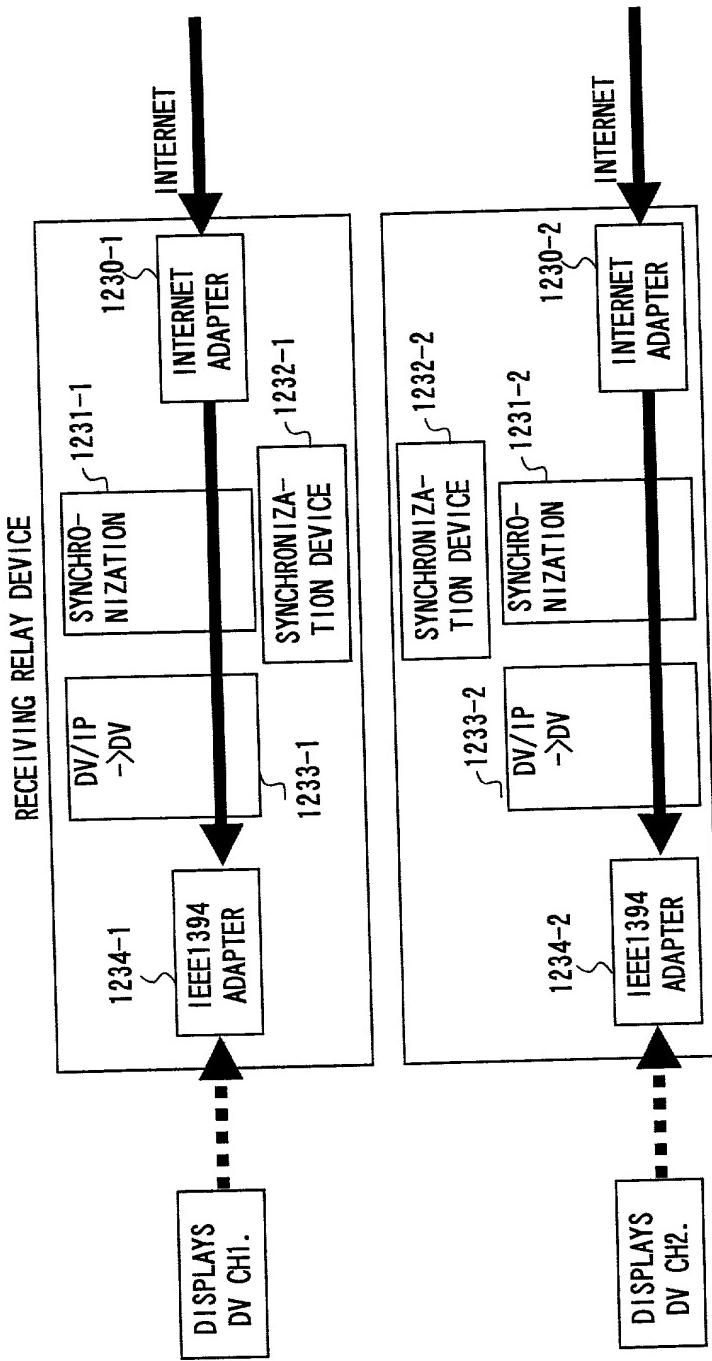
F I G. 68



... video channel number 00000000000000000000000000000000



F I G. 69



F I G. 70

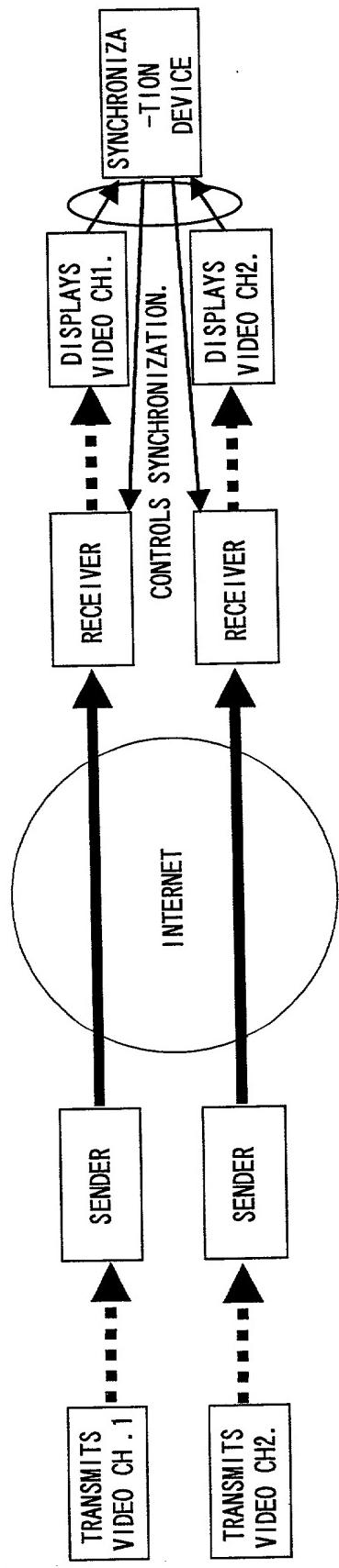


FIG. 71

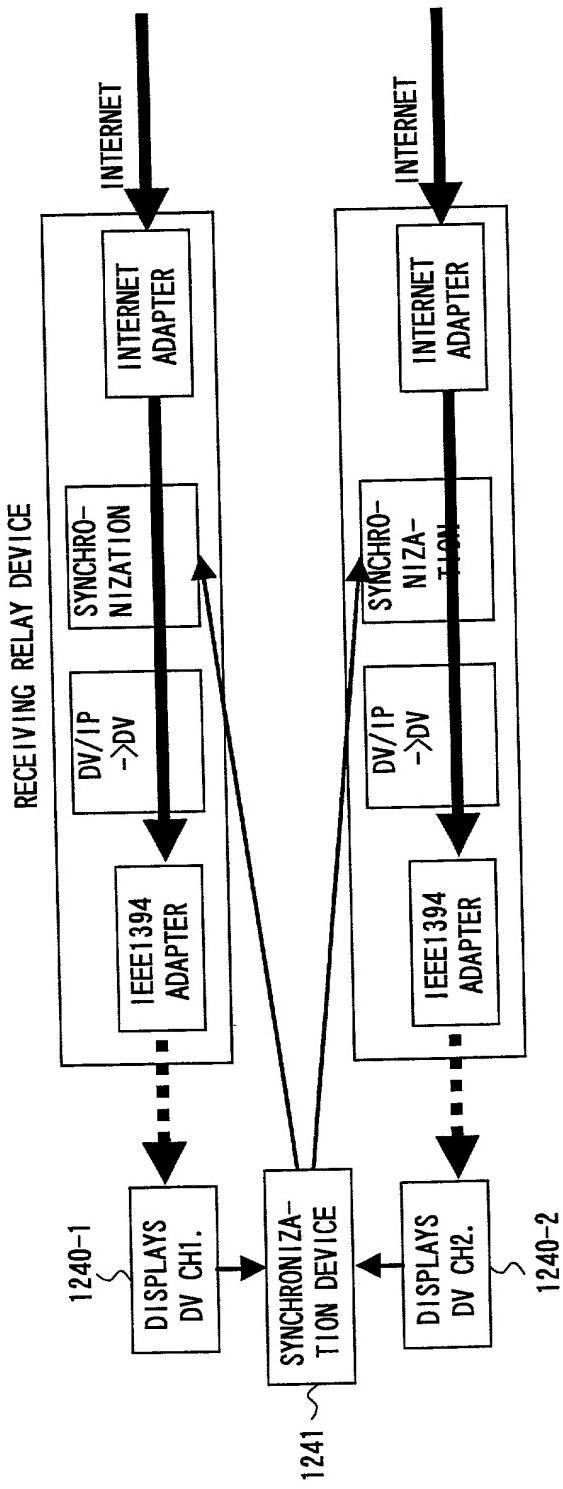
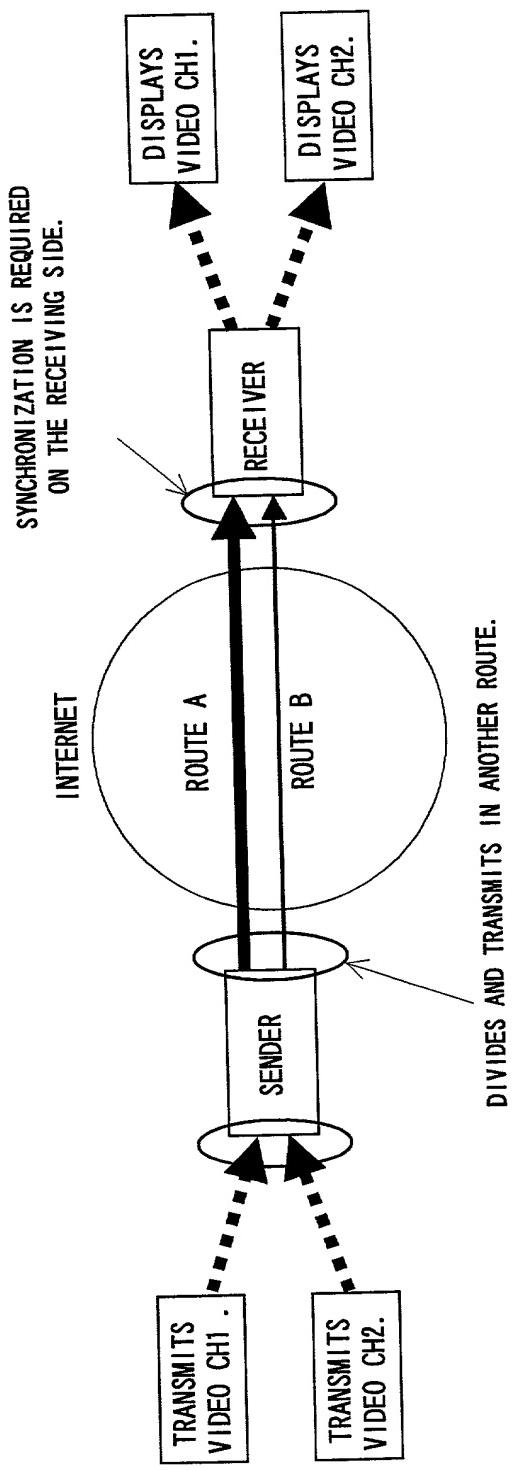
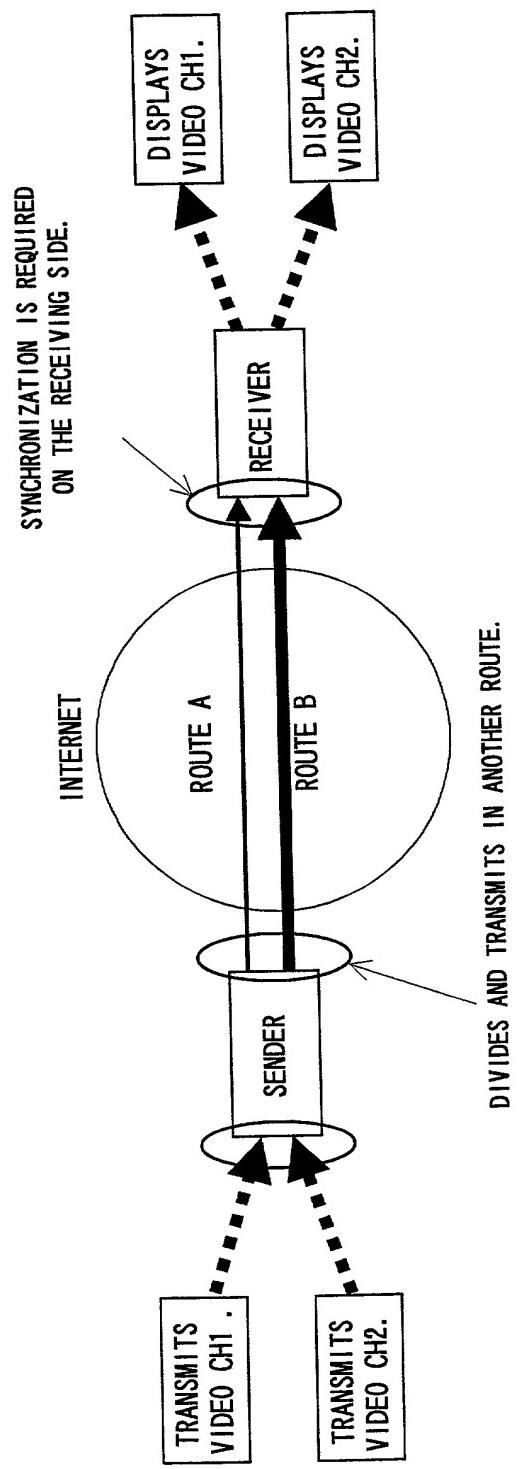


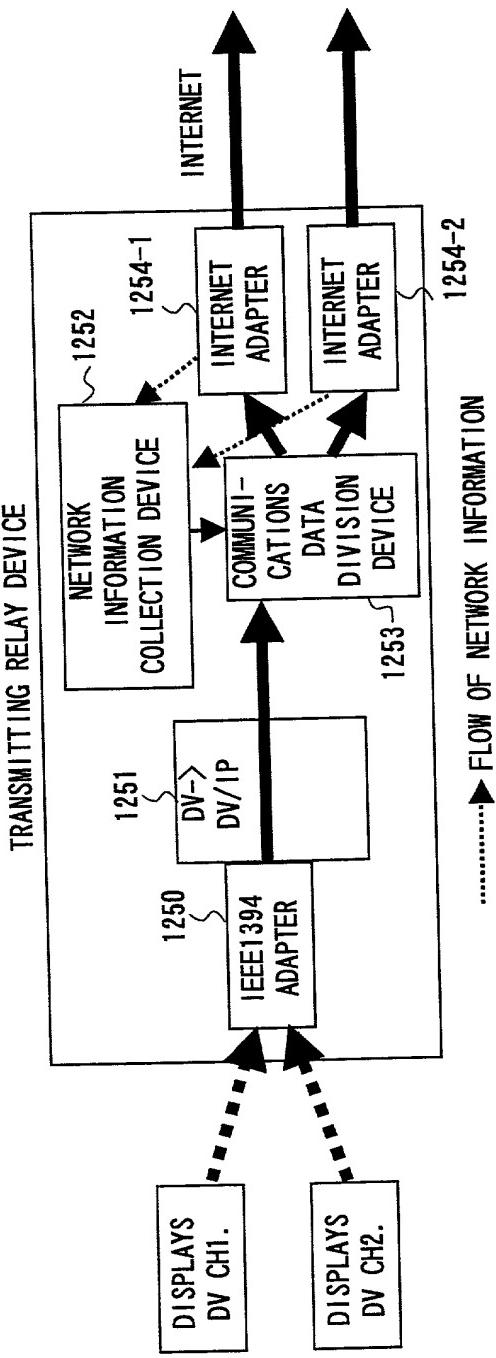
FIG. 72

F I G . 7 3

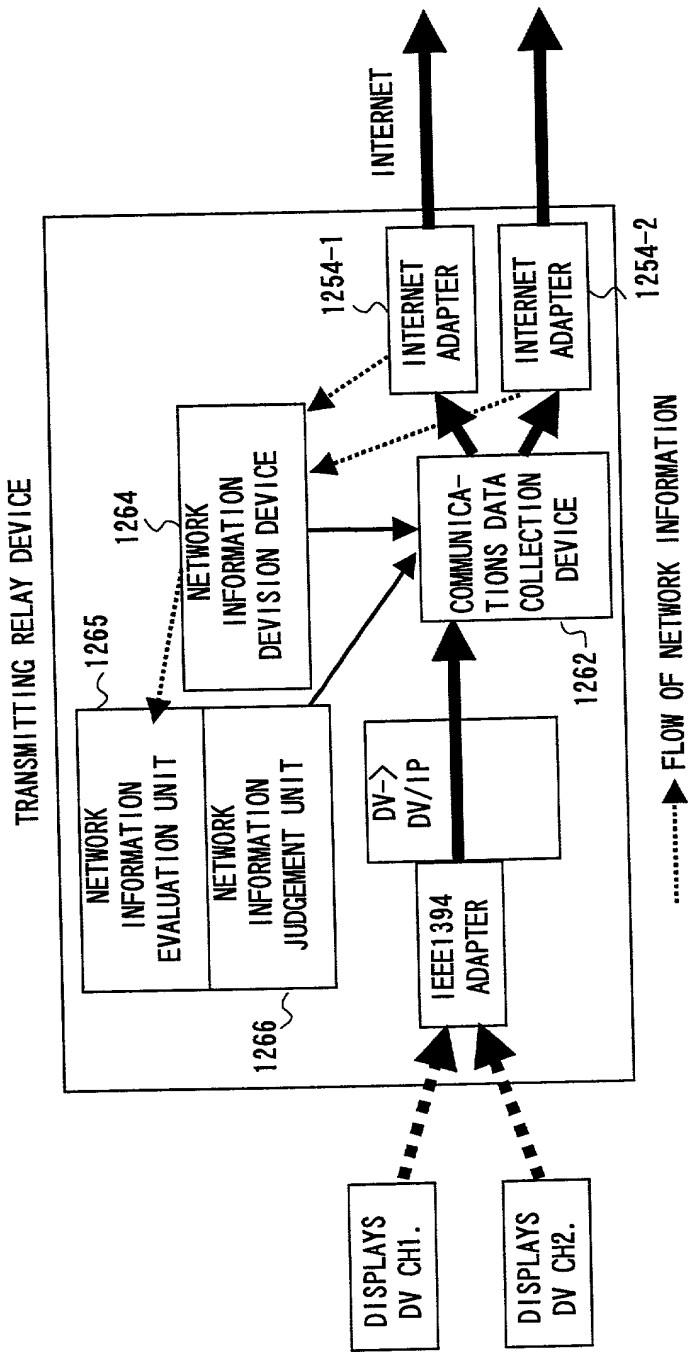




F I G . 7 4



F I G. 75



F I G. 7 6

..... → FLOW OF NETWORK INFORMATION

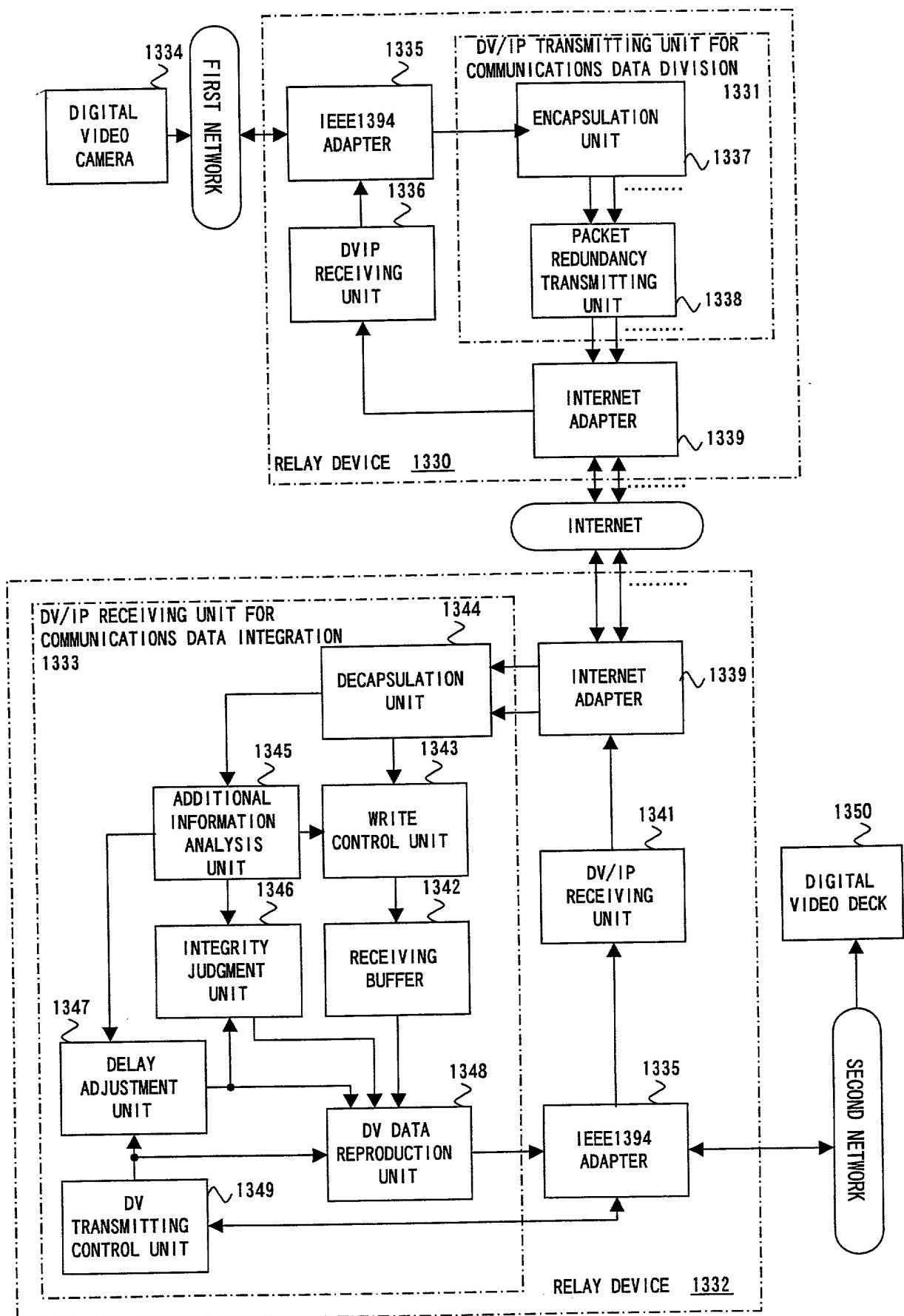
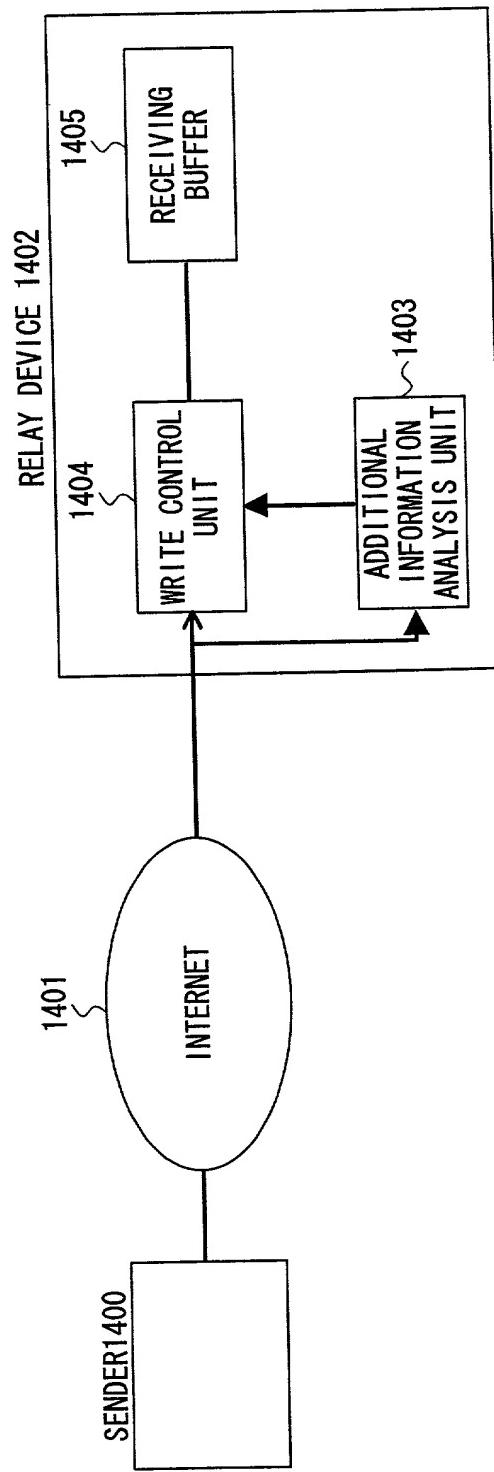


FIG. 77



F I G. 7 8